

. . . .

.

#### Social Exclusion in Jordan:

## Sociological study for the Domains of exclusion in Al-Mokheabh Al Foca village – sub-governorate Bani Kanana

. . .

.. .

. . .

..

.. .# ..Q

#### قرار لجنة المناقشة

# JIK Universit الاستبعاد الاجتماعي في المجتمع الأردني: دراسة سوسولوجية لمجالات الاستبعاد في قرية المخيبة الفوقا- لواء بني كنانة

إعداد الطالب

### محمد يوسف محمد بني مفرج

قدم مدة الرسالة استكمالا لمتطلبات المصول على درجة الماجستير في كلية الآداب في

تخصص بحلم الاجتماع والخدمة الاجتماعية

في جامعة اليرموك – اربد- الأردن

أ.د. عبد العزيز علي الخزاعلة .....

د. محمد عبد الكريم الحوراني .....

د. امل سالم العواودة ......

تاريخ مناقشة الرسالة

07/17/71.79

### إلى أروع إنسان...وأعظم نبع للحنان...إلى القلب الذي يحميني من مخاطر الأيام \*\*\* والدي الحبيب \*\*\*

إلى شمعة الأمل والسعادة المضيئة...إلى اللمسة الحانية...وإلى من ينبض

القلب مرددا اسمها

\*\*\*والدتي الغالية \*\*\*

إلى من تغار منها النسائم لرقتها...وإلى من تتطلع الحمائم لتكون

بوداعتما...إلى الابتسامة الرقيقة...إلى توأم الروم

\*\*\* <u>| ; ; ;</u> \*\*\*

وإلى أحبائي و رفاق دربي

\*\*\*إخواني وأخواني\*\*\*

وإلى كل أصدقائي وزملائي

في الحياة العلمية والعملية

أهديكم هذا العمل

.  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  . . .

۷

...

	··
	Ú
<sup></sup> 1	
4	
6	
7	
8	
9	
<sup></sup> 14	
<sup></sup> 14	
<sup></sup> 17	Ù !2
···20	Ù !3
22	" Ù !4"""
24	Ù !5
··27	
··31	
34	
··47	
<sup></sup> 50	
<sup></sup> 51	tlF
<sup></sup> 51	
53	

٥

68	
68	
69	
69	
69	
··70	
··79	o
<sup></sup> 105	·Õ·····ù·.ù·····
	0.
<sup></sup> 110	
<sup></sup> 113	
<sup></sup> 114	
··122	
<sup></sup> 128	

C Arabic Digital Ti

..

و

	Ø .	
		Ø
··70		"1, x
<sup></sup> 71		2
··71		3
··72		<sup></sup> 4
··72		<sup></sup> 5
··73		6
··74		<sup></sup> 7
··74		8
··75		··9
··76		<sup></sup> 10
··76		<sup></sup> 11
<sup></sup> 76		<sup></sup> 12
··77		<sup></sup> 13
··77		<sup></sup> 14
··78		<sup></sup> 15
<sup></sup> 79	· Ô · Ô · ~Ø · · · · · · · · · · ·	<sup></sup> 16
80	· · ·Ø · · · · · · · · · · · · · · · ·	<sup></sup> 17
··80	· Ô · Ô ·ØÔ "Ø · · · · · · · · · · · · · · · · · ·	<sup></sup> 18
<sup></sup> 81	· Ô · · · · · Ø · · · · · · · · · · · ·	<sup></sup> 19
··82		<sup></sup> 20
··82	· · · · ·Ø **·Ø · · · · · · · · · · · ·	<sup></sup> 21
··83	·. · · · · · · · Ø · · · · · · · · · · ·	<sup></sup> 22

1		00
83	· · · · · /// Ø · · · · · · · · · · · ·	<sup></sup> 23
	··/1	
02		<sup></sup> 24
<sup></sup> 85	· · · · · Ø ‴Ø · · · · · · · · · · · · ·	24
··85	· · · · ·Ø‴Ø · · · · · · · · · · · ·	<sup></sup> 25
86	· Ô · · "Ø · · · · · · · · · · ·	26
··87	· · · · ·Ø‴Ø · · · · · · · · · · · ·	<sup></sup> 27
07		
··87	· Ô · · · "Ø · · · · · · · · · · · · ·	<sup></sup> 28
	y1 · · ·	
88	· Ô · ·Ø‴Ø · · · · · · · · ·	<sup></sup> 29
	0 00	
88	· Ô · Ô · Ø · Ø · · · · · · · · · · · ·	<sup></sup> 30
90	· · · · ·Ø‴Ø · · · · · · · · · · ·	<sup></sup> 31
00		20
90	. Ů	<sup></sup> 32
··91	· ô · ·Ø~Ø · · · · · · · · ·	··33
91	· O · · ·Ø'·Ø · · · · · · · · · · · · · · ·	
<sup></sup> 91	· Ô Ô ·Ø‴Ø · · · · · · · · · · · · · · · · ·	<sup></sup> 34
<sup></sup> 92	· Ô · · · · · Ø · · · · · · · · · · · ·	<sup></sup> 35
	·····1 · · ··Ø ·	
<sup></sup> 92		<sup></sup> 36
	"″1	
93	· · · · · · · · · · · · · · · · · · ·	<sup></sup> 37
	··· · · · // Ø · · · · · · · · · · · · ·	j.
··94	· · ·Ø · "Ø · · · · · · · · · · · ·	<sup></sup> 38
	1	

"96       0       0       0       40         "96       0       0       41         "97       0       0       42         "97       0       0       43         "98       0       0       44         "98       0       0       45         "99       0       0       46         "101       0       0       47         "101       0       0       48         "102       0       0       49         "103       0       0       50         "103       0       0       50         "104       0       0       52         "104       0       0       53         "105       0       0       54	<sup></sup> 94	· ô · · · · Ø · · · · · · · · · ·	<sup></sup> 39
"96       "97       "98       "41         "97       "98       "98       "43         "98       "98       "44         "99       "45       "47         "101       "0       "47         "102       "0       "0         "103       "98       "104         "104       "0       "49         "103       "20       "49         "104       "0       "0         "105       "0       "54			
"96       "0"0"       "41         "97       0"0"       "42         "97       0"0"       "43         "98       0"0"       "44         "98       0"0"       "45         "99       0"0"       "46         "101       0"0"       "47         "102       0"0"       "48         "103       "0"       "49         "104       0"0"       "51         "104       0"0"       "52         "105       0"0       "54	··96	· Ô · Ô · ~Ø · · · · · · · · · ·	<sup></sup> 40
"97"       "9"       "42"         "97"       "0"       "43"         "98"       "0"       "0"       "44"         "98"       "0"       "0"       "45"         "99"       "0"       "0"       "46"         "101       "0"       "0"       "47"         "101       "0"       "0"       "48"         "102       "0"       "0"       "49"         "103       "0"       "0"       "51"         "104       "0"       "0"       "52"         "104       "0"       "0"       "53"         "105       "0"       "54"			
"97"       "9"       "42"         "97"       "0"       "43"         "98       "0"       "0"       "44"         "98       "0"       "0"       "45"         "99       "0"       "0"       "46"         "101       "0"       "47"       "47"         "102       "0"       "0"       "48"         "103       "0"       "0"       "50"         "104       "0"       "0"       "51"         "104       "0"       "0"       "53"         "105       "0"       "54"	··96	· · ·Ø‴Ø · · · · · · · · · ·	"41
"97       0       0       43         "98       0       0       44         "98       0       0       45         "99       0       0       46         "101       0       0       47         "101       0       0       48         "102       0       0       49         "103       0       0       0         "104       0       0       0         "104       0       0       0         "105       0       0       54			
"97"       0       0       0       43         "98       0       0       44         "98       0       0       45         "99       0       0       46         "101       0       0       47         "101       0       0       48         "102       0       0       49         "103       0       0       0         "104       0       0       0         "104       0       0       0         "105       0       0       0         "105       0       0       0	<sup></sup> 97	· · · · ·Ø "Ø · · · · · · · · · · · ·	42
"98       0       0       44         "98       0       0       45         "99       0       0       46         "101       0       0       47         "101       0       0       48         "102       0       0       49         "103       0       0       0         "104       0       0       0         "104       0       0       0         "105       0       0       0			
"98       "0 "0 "0 "0 "0 "0 "45         "99       "0 "0 "0 "0 "0 "47         "101       "0 "0 "0 "0 "0 "47         "101       "0 "0 "0 "0 "0 "48         "102       "0 "0 "0 "0 "0 "0 "10 "10 "10 "10 "10 "1	<sup></sup> 97	. O	<sup>"</sup> 43
"98       0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
"99       0       "46         "101       0       0         "101       0       0         "101       0       0         "47       "47         "101       0       0         "102       0       0         0       0       0         "103       0       0         "103       0       0         "104       0       0         "104       0       0         "104       0       0         "105       0       0	"98	. OO	" <b>44</b>
"99       0       "46         "101       0       0         "101       0       0         "101       0       0         "47       "47         "101       0       0         "102       0       0         0       0       0         "103       0       0         "103       0       0         "104       0       0         "104       0       0         "104       0       0         "105       0       0		10,71	45
"99       0       146         "101       0       0         "101       0       0         "101       0       0         "47       148         "102       0       0         0       0       0         103       0       0         0       0       0	"98		45
"101       O O O O O O O O O O O O O O O O O O O	00		46
"101       O O O O O O O O O O O O O O O O O O O	99		46
"101       "0" "Ø       "48         "102       0 0 0 0 0       "49         "103       "0 0 0 0 0       "50         "104       0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	101	V	·· <b>47</b>
"101       "0" Ø " Ø "       "48         "102       Ô Ô "Ø "Ø       "49         "103       "0 "Ø "Ø       "50         "104       Ô Ø "Ø       "51         "104       Ô Ø "Ø       "52         "105       "0 "Ø       "54	101	· X O	4'
"102       O O O O O O O O O O O O O O O O O O O	··101	. 0	<sup></sup> 48
"102       O O O O O O O O O O O O O O O O O O O	101		
"103	··102		<sup></sup> 49
"103	102	A. O.	
"103	·· <sub>103</sub>	· · · · · · · · · · · · · · · · · · ·	<sup></sup> 50
"103       "104       "104       "104       "104       "104       "104       "104       "104       "104       "104       "104       "104       "104       "104       "105			
"104       "0"       "0"       "52         "104       "0"       "0"       "52         "104       "0"       "0"       "53         "105       "0"       "0"       "54	··103		<sup></sup> 51
"104 · Ô · · · · · · Ø · · · · · · · · · · ·			
"104	<sup></sup> 104	· ô · ·ø‴ø · · · · · · · ·	<sup></sup> 52
"105			
"105 · · · · · Ø ‴Ø · · · · · · ·	··104	. ŷ	<sup></sup> 53
		"″¹Ø · · · · · · · · · · · · · · · · · · ·	
	<sup></sup> 105	· · · · · Ø ‴Ø · · · · · · · · · · · ·	<sup></sup> 54

<sup></sup> 106	. Q. Q. \( \tilde{Q} \) \( \ti	<sup></sup> 55
107		<sup></sup> 56
<sup></sup> 107		36
	. Ů . Ů . Ů	
	1	
<sup></sup> 108	. Q. Q. QQ	57
<sup></sup> 108	· · · · ·Ø ‴Ø · · · · · · · · ·	<sup></sup> 58
<sup></sup> 109	· · · · ·Ø‴Ø · · · · · · · · · ·	<sup></sup> 59
	E. S.	
	ika) y	
	ieltaly	
	Digitallilol	
	oic Dieltal V	
	arabic Digital. Y	
	Arabic Y	
	© Arabic Diellal.	
	Arabic Y	
	Arabic Y	
	Arabic Y	

.. .

. .Õ . . .  $.\quad \tilde{\mathsf{Q}} \qquad .\quad \tilde{\mathsf{Q}} \qquad .\quad$ · Õ · Õ · Õ · Õ · Õ · Õ ·  $.\quad \tilde{\mathsf{O}}\quad .\quad \tilde{\mathsf{O}}\quad .\quad \tilde{\mathsf{O}}\cdot .\quad \tilde{\mathsf{O}}\cdot \tilde{\mathsf{O}}\quad .\quad .\quad .\quad .\quad .$ ΊĨ  $\dot{\tilde{\mathbf{W}}} \quad . \quad \tilde{\mathbf{O}} \quad . \\ \dot{\tilde{\mathbf{W}}} \quad . \quad \tilde{\mathbf{O}} \quad . \\ \dot{\tilde{\mathbf{W}}} \quad . \quad \tilde{\mathbf{O}} \quad . \\ \dot{\tilde{\mathbf{O}}} \quad . \quad \tilde{\mathbf{O}} \quad . \\ \dot{\tilde{\mathbf{O}}} \quad . \quad . \\ \dot{\tilde{\mathbf{O}}} \quad . \quad . \\ \dot{\tilde{\mathbf{O}}} \quad . \\ \dot{\tilde{\mathbf{O}$ .  $\tilde{\mathsf{O}}$  .  $\tilde{\mathsf{O}}$  .  $\tilde{\mathsf{O}}$  .  $\tilde{\mathsf{O}}$  .  $\tilde{\mathsf{O}}$  .  $\tilde{\mathsf{O}}$  . . . . . . . . 

 $\label{eq:control_control_control} \dot{\mathsf{U}}\tilde{\mathsf{O}} \quad \tilde{\mathsf{O}} \quad \dots \quad \dots$  $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$ 

· Õ ·fk\* ·&\$\$+·· Ô · Ô Ł Õ · Õ · Õ · Õ · Tfl  $.\quad \tilde{\mathsf{Q}} \cdot \tilde$  $\cdot$   $\tilde{O}$   $\tilde{O}$   $\cdot$   $\tilde{O}$   $\cdot$   $\tilde{O}$   $\cdot$   $\tilde{O}$   $\cdot$   $\tilde{O}$   $\cdot$   $\tilde{O}$   $\cdot$ .  $\tilde{O}$  . . . . . . . .  $\tilde{\mathbf{O}}$  .  $\tilde{\mathbf{O}}$ 

""fi' . - ' ' \&\$\$- ' \

```
\dot{\mathbf{U}} \quad \tilde{\mathbf{O}} \quad \cdot \tilde{\mathbf{O}
    . \ \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \quad . \ . \ . \ . \ .
    . \ \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \ \cdot \cdots \ \cdot \ \cdot \\
    \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{U}} \cdot \cdot \cdot \dot{\mathsf{U}} \cdot \cdot
· Õ · Õ · Õ · Õ · Õ · Õ · Õ
    \cdot \quad \tilde{\mathsf{O}} \quad \quad \tilde{
      ""fi394 2005 Ł
    · Õ·Õ·Õ·Õ·Õ·Ù·E··Ù·····
                                                                            \tilde{O} \stackrel{..}{\dot{}} \tilde{O} \stackrel{..}{\dot
                                                                            ·Õ·Õ·Õ·ÒÜÕŁ· ·Ù ·fi · · · · ·Ù Ł
                                                                              ·fi Õ · Õ ·ÙÕ ·Ł Õ ·Ù ·fi · ·Ù ·
        ŨĴ.
      \label{eq:control_control_control_control} \rag{10.5} \r
```

""fl5 ".2009".  $\cdot \quad \cdot \mathring{\cdot} \tilde{0} \qquad \cdot \tilde{0} \quad \cdot \tilde{0} \quad \cdot \tilde{0} \quad \cdot \tilde{0} \quad \cdot \quad \cdot \qquad \cdot$ · Õ ·Õ · Õ ·Õ ·Õ · . . . . . · Õ· ·Õ · Õ·Õ · Õ · Õ · . . . . Ů F. Ũ . Ũ . Ũ . Ū . Ū . Ū . 

· Õ · Õ · Õ · ¸·Õ · ¸ · Õ · · Ù · · · · Õ· Õ· Õ· Õ· Õ · Õ · · · · · Õ · Õ · Õ · Õ · Õ · . ··· Õ·Õ·Õ ·Õ ·Õ ·Õ ·Õ ·Õ ·Õ ·Õ ·Õ · · Õ · Õ · Õ· Õ · Õ · · · · · ·  $.\ \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \ \cdot \tilde{\mathsf{O}} \cdot$  $\cdots \ \hat{O} \ \text{t} \ \tilde{O} \quad \dot{\hat{U}} \quad \tilde{O} \quad$ 

""f&\$\$&

```
. \quad \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \quad \tilde{\mathsf{O}} \cdot \quad \tilde{\mathsf{O}} \cdot \quad \tilde{\mathsf{O}} \cdot \quad \tilde{\mathsf{O}} \cdot \quad \tilde{\mathsf{O}} \quad \tilde{
                             . \tilde{O} . 
··¸· Õ · Õ · Õ · Õ · Õ · Õ · .
```

. Õ . . Õ . Õ . Õ . Õ . Õ . · Õ · Õ· Õ · "·Õ · Õ · Õ · · Õ · Õ · Õ · Õ · Õ · Õ · Õ ·  $. \tilde{O} \cdot \tilde{O}$  $\cdot \tilde{\mathsf{O}} \qquad \cdot \tilde{\mathsf{O}} \qquad \tilde{\mathsf{O}} \qquad$  $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\cdot$   $\cdot$   $\cdot$   $\cdot$ · Õ · Õ · Õ · Õ · Õ ·

 $\tilde{O} = \tilde{O} \cdot \tilde{O} \cdot \tilde{O} = \tilde{O} = \tilde{O} \cdot \tilde{O} = \tilde{O} = \tilde{O} \cdot \tilde{O} = \tilde{O} =$  $. \qquad \tilde{\mathsf{O}} \quad \tilde{\mathsf{O}} \quad$  $\tilde{O}$   $\tilde{O}$  . . .

· Õ· Õ · Õ·Õ·Õ· · · ·  $. \ \tilde{\mathsf{O}} \ . \ .$  $\tilde{O} \cdot \tilde{O} \cdot$ .  $\tilde{Q} \cdot \tilde{Q} \cdot \tilde{Q}$  $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$ · Õ · Õ · Õ · Õ · · · · · · Ù ÙÕ .  $\tilde{\mathbf{O}}$  .  $\tilde{\mathbf{O}}$  ...  $\tilde{\mathbf{O}}$ ÕŰ.  $\tilde{O} \cdot \tilde{O} \cdot \tilde{U} \cdot \tilde{U}$ · Õ

· Õ · Õ · Õ · Ď · Ò · Õ · Õ · · · · · · · ··"f@YcbUfX]gž &\$\$\$Ł · Ô ·Ô Ł Õ · Õ · Õ · Õ · Ù · · · · · Õ·Õ·Õ·Õ·Õ·Õ·Õ·  $\hat{\mathbf{G}}_{\mathbf{G}}(\mathbf{G}_{\mathbf{G}}) = \hat{\mathbf{G}}_{\mathbf{G}}(\mathbf{G}_{\mathbf{G}}) + \hat{\mathbf{$ · Õ·Õ·Õ·Õ·Õ·Õ·Õ·Õ·Õ·Õ·  $\mathring{U} : \mathring{U} :$  $. \ . \tilde{\mathsf{O}} \qquad . \hat{\mathsf{U}} \, \tilde{\mathsf{O}} \qquad . \ \tilde{\mathsf{O}} \quad . \ \tilde{\mathsf{O}} \qquad \tilde{\mathsf{O}} \qquad . \ . \\$  $.\ \tilde{\mathsf{O}}\cdot\tilde{\mathsf{O}}\ \cdot\cdot\tilde{\mathsf{O}}\ \cdot\tilde{\mathsf{O}}\ \cdot\tilde{\mathsf{O}$ \ \cdot\tilde{\mathsf{O}}\ \cdot\tilde{\mathsf{O}}\ \cdot\tilde{\mathsf{O}}\ \cdot\tilde{\mathsf{O}}\ \cdot\tilde{\mathsf{O}}\ \cdot\tilde{\mathsf{O}\ \cdot\tilde{\mathsf{O}}\ \cdot\tilde{\mathsf{O}}\ \cdot\tilde{\mathsf{O}}\ \cdot\tilde{\mathsf{O}}\ \cdot\tilde{\mathsf{O}}\ \cdot\tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}

 $.\ \tilde{\mathsf{O}}\ .\ \tilde$ ·flùÕ ·ùÕ · ·ÕŁ Õ · Õ · Õ · ŢÑ.  $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$  " $\cdot$ · · Õ · Õ · Õ · Õ · Õ · . . . · Õ · Õ · Õ · Õ · Õ · "·  $\cdots \ \tilde{\mathsf{O}} \ \cdots \ \tilde{\mathsf{O} \ \cdots \ \tilde{\mathsf{O}} \ \cdots$ ,  $\tilde{\mathbf{O}}$  £  $\tilde{\mathbf{O}}$  .  $\tilde{\mathbf{O}}$ ....  $\tilde{O}$  ...  $. \qquad \tilde{\mathsf{O}} \quad . \quad \tilde{\mathsf{O}} \quad$ "fî  $\tilde{O}$  ·  $\tilde{O}$  · $\tilde{U}\tilde{O}$  ·  $\tilde{O}$  · $\tilde{O}$  ·  $\tilde{O}$  ·  $\tilde{O}$  · · · $\tilde{U}$  · · · · · Õ ·ÙÕ ·‴ Õ · Õ ″ Õ · · ·

```
. \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . . . \tilde{\mathsf{O}} . . . . \tilde{\mathsf{O}} . . . . \tilde{\mathsf{O}} . . .
                                                                                                                                                                                                                                                                ···"ffFcX[Yfgž:YHJ:%-) ž:d+Ł:
    . \ \tilde{\mathsf{O}} \ 
       · Õ·Õ·Õ · Õ · Õ · · · ·
    . \ \tilde{\text{O}} \ \cdot \hat{\text{O}} \ \tilde{\text{O}} \ \cdot \ \tilde{\text{O}} \ \tilde{\text{O}} \ \cdot \ \tilde{\text{O}} \ \cdot \ \tilde{\text{O}} \ \cdot \ \tilde{\text{O}} \ \cdot \ \tilde{\text{O}} \ \tilde{\text{
    · Õ · Õ · Õ · Õ · · Õ · · Õ
    · Õ · Õ · Õ · Õ · Õ · Õ · Õ
                                                                                                                                                                                                   ""ffFcX[Yfgž'YfU'ž%-) ž'd+Ł
. \quad \tilde{O} \quad \tilde{O
                                                                                                                          Õ·Õ··Õ··Õ··Ď··Ù
                                                                                                         \tilde{oo} \cdots \tilde{oo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ""flDfUX\Ub`ž&$$*žd%!%(`Ł
    · Õ · Õ · Õ · Õ · . Õ · . . . .
```

.  $\tilde{O}$  . . .  $\tilde{U}$  . .

```
. \ \tilde{\mathsf{O}} \ . \ . \ . \ . \ .
     · Õ · Õ · Õ · Õ · ¸· Õ · · ·
 ··fl i bk \U C < ž &$%$ž d · %&£' Õ · Õ ·'Ù Õ ′′ Õ · Õ
     . Õ . Õ . Õ . Õ . Õ . Õ .
    . \ \tilde{\mathsf{O}} \ 
. \tilde{O} \cdot \tilde{O} . \tilde{O} . \tilde{O} . \tilde{O} . \tilde{O} . \tilde{O} . \tilde{O} .
     . \ \tilde{\mathsf{O}} \ \cdot \ \tilde{\mathsf{O}} \ \tilde{\mathsf{O}} \ \cdot \ \tilde{\mathsf{O}} \ \cdot \ \tilde{\mathsf{O}} \ \tilde{\mathsf{O}}
```

```
. \tilde{O} . . . .
                                                                                 ""ff. i bk \UC< 'ž'&$\%'`\ddot{z}'d'\% \ddot{L}"  
"\dot{U}"
 · Õ·Õ·Õ ·Õ ·Õ · Õ ··...
·Õ·Õ·Õ·Õ·¸Õ·¸Ò·Ù····
 . Q . Q . Q . Q . Q . Q . Q . Q
· Õ ·Õ ·Õ ·Õ·Õ ·
                                                                                                                                                                                                                                                                                                                                                                                      Õ
. Õ. Õ. Õ. Õ. Õ.
. Õ·Õ·Õ · Õ ·
                                                                                                                                                                                                                                                                                    ÕÕÕ
                                                                                                                                                                                                                                                                                                        ""ff; i bk \UC< 'ž'&$%$ 'ž'd'% 'Ł'
                                                                                                                                                                                                                                                                                                Õ·Õ·Õ·
· Õ · Õ · Õ · Õ · Õ · "Õ · "Ù · · · ·
                                                                  · Õ · Õ · Õ · Õ · Õ · Õ
\tilde{O} \qquad 
\tilde{O} = \tilde{O} =
```

```
.' \tilde{\mathbf{Q}} .' \tilde{\mathbf{Q}} . F. \tilde{\mathbf{Q}} . . \tilde{\mathbf{Q}} . . \tilde{\mathbf{Q}} . \tilde{\mathbf{Q}} . \tilde{\mathbf{Q}}
   . \tilde{O} . \tilde{O}
    \tilde{O} \quad 
    . Õ . Õ . Õ . Õ . Õ . Õ . Õ . Õ . Õ . . . .
    ··Õ·Õ·Õ·Õ·Õ·Õ·Õ·Ò·Ò·Ò··Ù··
    . \tilde{\mathbf{O}} . \tilde{\mathbf{O}}
 . \tilde{\mathsf{O}} . . . .
                                                                                                                                                                                                                                                                                                                       ""fī' - ) · · · · · &$$) · · · · · Ł · ·
   . \tilde{\mathsf{O}} . . . . .
    · Õ · Õ · 1 % · Õ · Õ · Ù Õ · · · % +( · · ····
```

```
\tilde{O} \quad 
                                                                                                                                                                                                                    f Q . f Q . \dot Q . \dot Q . f Q . \dot Q . \dot Q .
                                                                                                 \tilde{\mathbf{O}} \ \cdot \ \tilde{\mathbf{O}} \ \cdot \dot{\mathbf{O}} \ \cdot \ \cdot \ \mathsf{iff} \ \cdot \ \cdot \cdot \cdot \&\$\$ - \cdot \cdot \cdot \ \hat{\mathbf{O}} \ \cdot \cdot \cdot \cdot \hat{\mathbf{O}} \ \cdot \cdot \cdot \hat{\mathbf{O}} \ \cdot \cdot \cdot \hat{\mathbf{O}}
                                                                                . \ \tilde{\mathsf{Q}} \ . \ . \ . \ . \ .
· Õ · Õ · Õ · Õ · Õ · · ·"·
. \quad \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \quad \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \quad \tilde{\mathsf{O}} \quad \tilde{\mathsf{O}} \quad \tilde{\mathsf{O}} \quad \tilde{\mathsf{O}} \quad .
ÕÕÕÕÕÕÕ
                                                                                                                                                                                                                                                                                                                                                                                                       . Q . Q . Q . U. F.
·õ · õ ·
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Õ · Õ·Õ·Ù · ·Ù
                                                                                                                                                                                                                                                                                                                                                                                                                                       Õ 'Ù Õ ' Õ '' Õ ' 'Ù ' ' ' ' '
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ""ffcV]`Už`&$$*ž`d`, +Ł`
. \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} = \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} = \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} = \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} = \tilde{
                                                        . \tilde{\mathsf{O}} . . . . . .
  . \tilde{\mathsf{O}} . ...\tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . ....
                                         \tilde{\mathsf{O}} \tilde{\mathsf{
                                                                            \widetilde{\mathbb{Q}} \qquad \widetilde{} \qquad \widetilde{} \qquad \widetilde{\mathbb{Q}} \qquad \widetilde
```

```
. \tilde{\mathsf{O}} . \tilde{
   · Õ · Õ · Õ · Õ · Õ · ¸ ·
    · Õ · Õ · ¸ · Õ · ¸ · Õ · · · · · Ù ·
   · Õ ·Ù Õ ·"·Õ · Õ· Õ ·
   · Õ · Õ· Õ · Õ · Õ · Õ · Õ
   · ··&$$+··· Ô ··Ô Ł''·Õ ··Õ ··Õ ··
   ·Õ ·Õ·Õ·Õ · Õ · Õ · Õ
                                                                                                                                                               · Õ · Õ· Õ · Õ · Õ ·
 · · Õ · Õ · Õ · Õ · Õ · Õ · · ····
 · Õ · Õ · Õ · Õ · Õ
. \ \tilde{O} \ . \ \tilde{O} 
    . \tilde{O} \cdot \tilde{O} 
   · Õ·Õ·¸â·Õ·Õ·Õ·¨ã···
```

 $\tilde{\mathbf{O}} \qquad \tilde{\mathbf{O}} \qquad \tilde{\mathbf{$ ""fCha Ubbž'&\$%\$ž'd&' Ł .  $\tilde{\mathsf{O}}$  .  $\tilde{$ .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$ ·Õ·Õ·¸Õ · . Õ· Õ · ʻʻʻʻfl6cggYflžʻYlʻlUžʻ&\$\$ $\mathbf{5}$ žʻd&ʻŁʻÕʻÕ · Õ · Õ · Õ . Õ.70 · Õ · Õ · Õ · Õ  $\tilde{\mathbf{O}} \tilde{\mathbf{O}}$  .  $\tilde{\mathbf{O}} \tilde{\mathbf{O}}$  .  $\tilde{\mathbf{O}} \tilde{\mathbf{O}}$ ... **Õ**Õ ... **Õ**Õ . Õ . Õ . Õ "fl7\U\_fU UfmiUbX`5a Vfcg]c`ž`&\$\$\*ž`d'+-£ .Q ! & .  $\tilde{\mathsf{O}}$  . . . . .  $\tilde{\mathsf{O}}$  .  $\tilde{\mathsf{O}}$  .  $\tilde{\mathsf{O}}$  .  $\tilde{\mathsf{O}}$  .  $\tilde{\mathsf{O}}$  .  $\tilde{\mathsf{O}}$  .

```
. \tilde{O} . \tilde{O} . \tilde{O} . \tilde{O} . \tilde{O} . \tilde{O} . \tilde{U} . . . . . . . \tilde{U}
 . \tilde{O} \cdot \tilde{O} 
 . \tilde{O} . \tilde{O} ... \tilde{O} ... \tilde{O} ... \tilde{O} ... \tilde{O} ... \tilde{O}
 .\ \tilde{O}\cdot \tilde{O}\ .\ \hat{a}\ \tilde{O}\ .\ \hat{b}\tilde{O}\ .\ \tilde{O}\ .\ \tilde{O}\ .\ \tilde{O}\ .\ \tilde{O}\ .\ \tilde{O}\ .\ .\ .
  ""f16fUXg\Uk 'ž'&$$$žd( 'Ł'
 · Õ · Õ · · · Õ · · Õ · · Õ ·
 . Õ. Õ. Õ. Õ. Õ.
· Õ · Õ · Õ · Õ · Õ · Õ
  · Õ · Õ · Õ · Õ ·
                                                                                                                        Õ · Õ ‴Ù Õ · Õ · Õ · Õ · . . . . . .
                                                                                                                                                                                                                                                                                                                                                                                                               ...
"fl: ][ i YfcUž% - - žd' Ł
  . \tilde{\mathsf{O}} .
 . \ \tilde{O} \ . \ \tilde{O} 
                                                                                                                                                                                                                           "fl6cggYfhžYhUž" &$$5ž'd%L"
```

```
. \tilde{\mathsf{O}} .
       \tilde{O} = 
       \tilde{O} \quad 
                                                                                                                                                                                                                                          ""f( · · · · &$$- · · · · · · · · ·
     · Õ ~ Õ·Õ · Õ · Õ · Õ · Õ · Õ
\tilde{O} \cdot 
         · Õ·Õ·Õ·Õ·Õ·Õ·Õ·Õ·
       . \tilde{\mathsf{O}} . . . . . . . .
```

```
\check{z} \check{O} \dot{U} \check{O} 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ""fl?U]bckg_]ž &$%$ž'd($'£
      \tilde{\mathcal{O}} = \tilde{\mathcal{
         \tilde{O} \quad 
         ·,·Õ·Õ·Õ·Õ·Õ·Õ·Õ·
         · · · Õ · · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · · Õ · · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · Õ · · 
      · Õ · Õ···· Õ · Õ · Õ · Õ · Õ · Õ
... Ô . Ů . Ũ . Ũ . Ũ . Ũ . Ũ
                                                                                       \cdot\quad \tilde{\mathsf{O}} \quad \cdot \tilde{\mathsf{O}} \quad \cdot \tilde{\mathsf{O}} \quad \cdot \quad \cdot \quad \cdot \quad \cdot \, ,
      . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} ....
      .\ \tilde{\mathsf{O}}\cdot\tilde{\mathsf{O}} \qquad .\ \tilde{\mathsf{O}}\cdot\tilde{\mathsf{O}} \qquad \tilde{\mathsf{O}} \qquad \tilde{\mathsf{O}} \qquad .\ \tilde{\mathsf{O}} \qquad .\ \ldots \qquad .
         .\ \tilde{\mathsf{O}}\ .
         . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . . . . . \tilde{\mathsf{U}} .
                                                                                                                                                                                                                                                                                                                                                                           ···fl' - ) · · ···&$$) ··· · ·Ł
```

```
.\quad \tilde{\mathsf{O}} \quad .\quad 
              . \ \tilde{\mathsf{O}} \ \ .., \tilde{\mathsf{O}} \ \ .. \ \tilde{\mathsf{O}} \ \ .. \ \tilde{\mathsf{O}} \ \ .. \ \tilde{\mathsf{O}} 
              \cdot\quad\tilde{\mathsf{O}}\quad\cdot\tilde{\mathsf{O}}\quad\cdot\quad\tilde{\mathsf{O}}\quad\cdot\quad\tilde{\mathsf{O}}\quad\cdot\quad\tilde{\mathsf{O}}\quad\cdot\quad\tilde{\mathsf{O}}\quad\cdot
              · Õ · Õ ·ÙÕ · Õ · Õ · · ·
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ""'flCZU_'žMU'ž&$$*ž'd'&' Ł`Ù
              · Õ · Õ · Õ · Õ · Õ ·
                                                                       · Õ · Õ · Õ · Õ · Õ
""fi(&*
                                                                                                                                                                                                                                                                                                 Õ · Õ· Õ · · · · · ·
                                                                                      . \tilde{\mathsf{O}} \ \cdot \ \tilde{\mathsf{O}} \ \cdot \ \tilde{\mathsf{O}} \ \cdot \ \tilde{\mathsf{O}} \ \cdot \tilde{\mathsf{O}} 
                ""fi( &*
```

```
.\quad \tilde{\mathsf{O}} \quad \tilde
     . \tilde{O} .
   . Q.Q.'. Q . Q. Q.
   . Õ. Õ. Õ. Õ. Õ. Õ. Õ. . . Õ.
""ffCZJ_'žYHJ''ž&$$*ž'd'%&''Ł
   . \tilde{O} . 
   . \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{U}} . .....
```

```
. \tilde{O} . 
\hat{\mathbf{U}}\tilde{\mathbf{O}} \quad \tilde{\mathbf{O}} \quad \tilde{\mathbf{O}}
 . \tilde{O} . . . . . \tilde{U}
                                                                                                                                                                                                                                                                                                                                                                                                                          ¨¨"f16fUbXga Už'&$$$'ž'd'&' 'Ł`
. \quad \tilde{\mathsf{O}} \quad \vdots \quad \tilde{\mathsf{O}} \quad \tilde{\mathsf{O}} \quad \tilde{\mathsf{O}} \quad \tilde{\mathsf{O}} \quad \tilde{\mathsf{O}} \quad \tilde{\mathsf{O}} \quad . \qquad .
. Q . Q . . . Q . Q . Q . Q .
· Õ · Õ · Õ · "· Õ · Õ ·
 . Õ. Õ. Õ . Õ . Õ .
                                                                                        ""fGUhYXž"YHUž"&$$+ž"d%( 17Ł
                                                           · Õ · Õ · Õ · Õ · Õ · Õ · · Õ · .
                                                                                                                                                                       · Õ · Õ · Õ · Õ · Õ ·
· Õ · Õ · ¸ · Õ · Õ · Õ · · · · · · ·
\tilde{O} \cdot 
· Õ · Õ · Õ · Õ · Ù Õ · · · · · · · · ·
```

```
. \tilde{O}\cdot\tilde{O} \quad \cdot \quad \tilde{O} \cdot \cdot \tilde{O}\cdot\tilde{O} \cdot \tilde{O} \cdot \tilde{U} \quad \cdot \quad \cdot \quad \cdot \quad \dot{U}
   \tilde{O} \quad \tilde{U} \quad 
    \tilde{O} \cdot 
    · Õ · Õ · Õ · Õ · Õ · · . . .
    ·Õ "... Õ .. Õ .. Õ . Õ . Ò .. Õ
   · Õ·Õ·Õ·Õ·Õ·Õ·Õ·Ò
. \tilde{\mathsf{Q}} . . . . . . . . .
   .\ \tilde{\mathsf{O}}\ .\ \tilde{\mathsf{O}}\ .\ \tilde{\mathsf{O}}\ .\ \tilde{\mathsf{O}}\ .\ \tilde{\mathsf{O}}\ .\ \tilde{\mathsf{O}}\ .\ .\ .\ .\ .\ .\ .\ .\ .\ .
   . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{U}} . . . . . .
```

```
.\ \tilde{\mathsf{O}} \ .. 
                . \tilde{\mathsf{O}} . . .
              . Õ · Õ · Õ · Õ · Õ · · · · ·
                . Q . Q . Q . Q . Q . Q. . J.
                                                                   · Õ·Õ·Õ·Õ·¸ Õ·¸
. Õ·Õ·Õ·Õ·Õ·Õ·Õ·Õ·Õ·Õ·Õ·Õ·
          ···% - &····Ô 'Ł'' Õ 'ÙÕ ' Õ '`ÙÕ ' Õ ''¸' Õ '
                . \tilde{\mathsf{O}} . . . . . . . . . . .
                .\quad \tilde{\mathsf{O}} \cdot \tilde
```

· Õ · Õ · Õ · · Õ · · Ů Õ · · "· · · · Õ · Õ·ÙÕ · Õ·Õ · Õ · · · · . Õ. Õ. Õ. Õ. Õ. Õ. Õ. ·Õ·Õ·ÒÕ·Õ·Õ·Ò·Ò··;···· ·Õ·Õ·ÒÖ ·Õ ·Õ ·Õ ·Õ ·

```
 . \quad \tilde{\mathsf{O}} \quad \tilde{\mathsf{O}} \quad \tilde{\mathsf{O}} \quad \tilde{\mathsf{O}} \quad \tilde{\mathsf{O}} \quad \tilde{\mathsf{O}} \quad . \quad \tilde{\mathsf{O}} \quad . \quad 
       . \tilde{O} .
       . \tilde{\mathsf{O}} \cdot \tilde{
       . \tilde{O} ... \tilde{O} . \tilde{O} . \tilde{O} . \tilde{O} . \tilde{O}
       . Q . Q . Q . Q . Q . Q . Q .
\cdots \ \widetilde{00} \qquad \widetilde{00} \qquad \widetilde{00} \qquad \cdots \ \widetilde{00} \qquad \cdots \ \widetilde{00}
       . \tilde{O} . 
       · Õ ·Ù Õ · Õ · Õ · Õ ·
                                                                                                                                                                                                                                                                          .\ \tilde{\mathsf{Q}}\ .\ \tilde{\mathsf{Q}}\ .\ \tilde{\mathsf{Q}}\ .\ \tilde{\mathsf{Q}}\ .\ \tilde{\mathsf{Q}}\ .\ \tilde{\mathsf{Q}}\ .\ .\ .
         \tilde{O} = \tilde{O} =
```

.  $\tilde{\mathbf{Q}}$  $\cdot \ \tilde{\mathsf{O}} \ \cdot \ \tilde{\mathsf{O}} \ \tilde{\mathsf{O}} \ \cdot \ \tilde{\mathsf{O}} \ \cdot \ \tilde{\mathsf{O}} \ \cdot \ \tilde{\mathsf{O}} \ \cdot \ \tilde{\mathsf{O}} \ \tilde{\mathsf{O}}$  $. \ \tilde{\mathsf{O}} \ . \ \tilde{\mathsf{O}} \$  $\tilde{O} = \tilde{O} =$ ""fl**O**a hn][ hž&\$\$- žd\*£ .  $\tilde{O}$  .  $\tilde{U}$ .  $\tilde{O}$  ....  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  . . . . . . .  $\tilde{U}$ .  $\tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{$ .  $\tilde{\mathsf{O}}$  .  $\tilde{$ 

```
.\quad \tilde{\mathsf{O}}\quad .\quad \tilde
                                                             . \tilde{O} \cdot \tilde{O} 
                                                                '! &) &: '``&$\%'```Ô 'E' Õ ' Õ ' Õ ' Õ '
· Õ ·"· Õ ·Ù Õ· Õ · Õ · Õ · · · · · · Ù · · ·
                                                                .\quad \tilde{\mathsf{O}} \quad .\quad 
                                                                . \tilde{\mathsf{O}} .
                                                                .\ \tilde{\mathsf{O}} \ .
                                                                · Õ·Õ·ÙÕ ·Õ· Õ· · · · · · ·
```

```
\dot{\tilde{U}} \tilde{O} \cdot \tilde{O} \cdot
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ""fFcV]`Už`&$$*ž`d, `Ł`
                          \tilde{O} = 
                          . \tilde{O} . . \tilde{O} . \tilde{O}
                       \cdots \tilde{\mathbf{O}} \cdot \tilde{
                       . \ \tilde{\mathsf{O}} \ . \ .
                       · Õ · Õ · Õ · Õ · Õ ·
                          · · Õ ˙ÙÕ ˙Ù Õ · Õ·Õ
                       · Õ · Õ · Ù Õ · Õ · Č · · · Õ · Õ · · ·
                                                                                                                                                                                                                                                                                                            . Q . Ç Q . ÇQ .
                       . \ \tilde{\mathsf{O}} \ 
                          ·Õ ·Õ ·Õ ·Õ ·Õ ·Õ·ÒŌ·;· ·
                          . Õ '''fl7c'i a V]U I b]j Yfg]lmž &$$' ž d&Ł Õ ' Õ 'Õ 'Õ 'Õ 'Õ 'Õ 
                          . \tilde{O} \cdot \tilde{O} \cdot \tilde{O} . \tilde{O} \cdot \tilde{O} . \tilde{O} \cdot \tilde{O} . . . . . . . . .
```

```
\cdot \cdot \stackrel{\cdot}{,} \cdot \tilde{O} \qquad \cdot \qquad \cdot \qquad \cdot
.\ \tilde{\mathsf{Q}}\ .\ \tilde{\mathsf{Q}}\ .\ \tilde{\mathsf{Q}}\ .\ \tilde{\mathsf{Q}}\ .\ .\ \tilde{\mathsf{Q}}\ .
.\ \tilde{\mathsf{O}}\ .\ \tilde{\mathsf{O}}\ .\ \tilde{\mathsf{O}}\ .\ \tilde{\mathsf{O}}\ .\ \tilde{\mathsf{O}}\ .\ \tilde{\mathsf{O}}\ .\ .\ .\ .
· · Õ · Õ · · Õ · · Õ · · · ·
· Õ · Õ · Õ· Õ · Õ
             ""fl% + '. &$$&. L."
                                \widetilde{\mathbb{O}}
                       · Õ Ö Č
                       \cdot \tilde{\mathsf{O}} \cdot \cdot \cdot \cdot \cdot
· Õ · Õ · Õ · Õ · Õ · Õ ·
```

""fbcggYfhž'YhU ž'&\$\$**5**Ł

```
. \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . . . . . . . . .
                . \tilde{O} . \tilde{O} . . . . . \tilde{O} . \tilde{O} . \tilde{O} . . . . .
                . \tilde{O} . . .
                ""fGWhY`Už'YhU'ž'&$$-Ł' 'Ù '
                 \tilde{O} = 
                 . \tilde{O} . \tilde{O}
                 . \tilde{\mathsf{O}} .
                 \cdots \tilde{O} 
                .\ \tilde{\mathsf{O}}\ .\ .\ .\ .
                 . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . . \tilde{\mathsf{O}} ......
```

```
. Q . Q. Q. Q. Q. . ...
                                         Digital library. Varingula libra
. \tilde{\mathsf{O}} . \tilde{\mathsf{U}} .
\cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \cdot \cdot \cdot
```

".fHca UgʻUbX'DYNfž'&\$\$, Ł"

· ÕÙÕ·Õ ¨ÙÕ `ÙÕ ·

· Õ ·Õ ·Õ·Õ ·Õ · Õ ·

·Ù Õ · · Õ · Õ · · Õ · · ,

. Õ. Õ. Õ. Õ. Õ. Õ. Õ. Õ.

.  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  .

```
".fl ]VYfg UXJ fcca Ubž &$$, Ł ""&
 \tilde{O} 
 · Õ · Õ· Õ · Õ · Õ · Õ · . . . .
 · Õ ˙ÙÕ ˙Õ ˙Õ · Õ · Õ · Õ · Õ · Õ · Õ ·
 · Õ · Õ · Õ · Õ · Õ · Õ
                                                                                                                                                      ··" ·Ù ·
 · Õ · Õ · Õ · Õ · Õ · Õ · Õ
 · Õ·flÕ · · · Õ · ¸ · Õ · ¸ · Õ · ¸ · Õ · Ł:
 . \ \tilde{O} \ . \ \tilde{O} 
\dot{\tilde{U}}\tilde{O} \quad \dot{\tilde{O}} \quad \dot{\tilde{O}} \quad \tilde{O} \quad \tilde{O} \quad \dot{\tilde{O}} \quad \dot{\tilde{O}
 \tilde{O} = 
 .\ \tilde{\mathsf{O}}\ .\ .\ .\ .\ .
```

```
\tilde{\mathsf{O}} \quad \tilde{\mathsf{
           . \tilde{\mathsf{O}} . \tilde{\mathsf{U}} . \tilde{\mathsf{U}} . . .
                                                                                                                                                                                                                                                                                                                                                                                                                                             ".fbggUX"UbX'6Ufgci a , 2007E
           · Õ ··· Õ · Õ · Õ · Õ · Õ ·
              · Õ · Õ · Õ · "· Õ · Õ ·
· Õ · Õ · Õ · Õ · Õ · .
              .\quad \tilde{\mathsf{O}} \quad .\quad 
           . \ \tilde{\mathsf{O}} \ \ \ \tilde{\mathsf{O}} \ 
           .\ \tilde{\mathsf{O}}\ .\ .\ .\ .\ .\ .\ .
```

```
\tilde{O} = 
                                                                                                                                                                                                                                                                                                                                                                                                                         · Õ · Õ· Õ·"·Õ · Õ · · · · ·
        \tilde{\mathbf{O}} = \tilde{\mathbf{
        ·, ÕŁÕ ·ÙÕ·Õ·Õ· Õ· Õ· ·¸·Õ ·Ù· ·
        \tilde{O} \quad \tilde{O} \quad
```

```
·*) Ł Õ · Õ · Õ · Õ · fl ( '! % Ł Õ ·
  .\ \tilde{\mathsf{O}}\ .\ \tilde{\mathsf{O}}\ .\ \tilde{\mathsf{O}}\ .\ \tilde{\mathsf{O}}\ .\ \tilde{\mathsf{O}}\ .\ \tilde{\mathsf{O}}\ .\ .\ .\ .
  . \tilde{O} . 
.\quad \tilde{\mathsf{O}} \quad .\quad 
  · Õ · Õ · Õ · Õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ŢŲ Ł
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    · Õ · Õ · Õ · Õ · Õ · ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ".f5bbY8Um,et. al, 2006E
  .\quad \tilde{\mathsf{O}} \ \tilde{''} \qquad \tilde{\mathsf{O}} \ \cdot \ \tilde{\mathsf{O}} \ \cdot \ \tilde{\mathsf{O}} \qquad \cdot \quad \tilde{\mathsf{O}} \qquad \cdot \quad \tilde{\mathsf{O}} \qquad \cdot \quad \tilde{\mathsf{O}} \qquad \tilde{\mathsf
  ·Õ ÙÕŁÕ·Õ·
```

 $\tilde{\mathbf{U}}\tilde{\mathbf{O}} \quad \tilde{\mathbf{O}} \quad \tilde{\mathbf{O}}$ · Õ·Õ · Õ·Õ·Õ · Õ·ÙÕ .  $\tilde{O}$  . $\tilde{U}\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  . . . .  $\cdot \ \tilde{\mathsf{O}} \ \cdot \ \tilde{\mathsf{O}} \ \tilde{\mathsf{O} \ \tilde{\mathsf{O}} \ \tilde$  $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$ · Õ · Õ · Õ · Õ · Õ . Õ · Õ · Õ ".fK Uhrf 6cggYflž Yh" Už &\$\$) Ł · Õ · Õ · ~ Õ · ~ .  $\mathbf{Q}$  .  $\mathbf{Q}$ .  $\tilde{\mathsf{O}}$  .  $\tilde{\mathsf{O}}$  . .  $\tilde{\mathsf{O}}$  .  $\tilde{\mathsf{O}}$  .  $\tilde{\mathsf{O}}$  .  $\tilde{\mathsf{O}}$  .  $\tilde{\mathsf{O}}$  . . . . . . . . . . . . . · Õ· Õ · Õ · Õ · Õ · Õ · Õ · fl&\$\$%! ·% - (Ł ·

```
\tilde{O} \cdot 
 · Õ · Õ· Õ · Õ · Õ · · · · · '"&$$&'Õ· % - + · · ·
 . \tilde{\mathsf{O}} . . . .
      \dot{\mathsf{U}}\ \tilde{\mathsf{O}}\ \dot{\mathsf{O}}\ \tilde{\mathsf{O}}\ \dot{\mathsf{O}}\ \dot{\mathsf{O}}\ \tilde{\mathsf{O}}\ \dot{\mathsf{O}}\ \tilde{\mathsf{O}}\ \dot{\mathsf{O}}\ \dot{\mathsf{O}\ \dot{\mathsf{O}}\ \dot{\mathsf{O}}\ \dot{\mathsf{O}}\ \dot{\mathsf{O}\ \dot{\mathsf{O}}\ \dot{\mathsf{O}}\ \dot{\mathsf{O}}\ \dot{\mathsf{O}\ \dot{\mathsf{O}}\ \dot{\mathsf{O}}\ \dot{\mathsf{O}}\ \dot{\mathsf{O}}\ \dot{\mathsf{
```

```
. \tilde{O} . . \tilde{O} . \tilde{O} . \tilde{O} . \tilde{O} . \tilde{O} . \tilde{O} .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   .fB]W:6U]`Ynž:&$$(£
                 . Õ. Õ. Õ. Õ. Õ. Õ. Õ.
               . Q . Q ., Q ., Q ., Q . Q . Q . . Q . . .
                 ·õ .. õ · · õ · õ · õ
Õ·Õ·Õ·Õ·Õ·Ò··Ù·
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           · Õ ·Õ · ·Ù · ·
               · ```` Õ · ČÕ · Õ
               .\quad \tilde{\mathsf{O}} \cdot \quad \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \quad \cdot \quad \tilde{\mathsf{O}} \cdot \quad \tilde{\mathsf{O}} \quad \cdot \quad \tilde{\mathsf{O}} \cdot \quad
               \cdot \tilde{\mathsf{O}} \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \tilde{\mathsf{O}
               . \tilde{\mathsf{O}} .
               \tilde{O} = \tilde{O} \cdot \tilde{O} \cdot \tilde{O} = \tilde{O} \cdot \tilde{O} \cdot
```

. Q .  $\tilde{\mathbf{O}}$  . · Õ · Õ ·, Õ · Õ · Õ · Õ · Ò · Õ · · · ·  $. \ \tilde{\mathsf{O}} \ . \ \tilde{\mathsf{O}} \$ .  $\tilde{O} \cdot \tilde{O} \cdot \tilde{O} \cdot \tilde{U} \tilde{O} \cdot \tilde{O} \cdot$ . . . . <u>. . .</u> . . . . . . . . . . .

```
".fБа VfU 'dc[ [ ]ž'&$$' Ł
   .\quad \tilde{\mathsf{O}} \stackrel{\text{\tiny{\it off}}}{\sim} \quad \tilde{\mathsf{O}} \quad \tilde{\mathsf
   . \tilde{O} .
   . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}}
   . Õ. Õ. Õ. Õ. Õ. . Õ. . .
. Õ . Õ . Õ . Õ . Õ . Õ . Õ . Õ . Õ
   · Õ · ·"Ù Õ · Õ · Õ · Õ · · `ÙÕ · Õ · Õ · ·
   ·Õ·Õ·ÒÕ·ÒÕ·ÒÕ
   . \tilde{O} . 
   \tilde{O} \quad 
      \tilde{O} \cdot 
   \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \cdot \cdot \cdot \cdot \cdot \cdot
```

 $. \ \, \underline{\mathbb{Q}} \quad . \quad \underline{\mathbb{Q}} \quad . \ \, \underline{\mathbb{Q}} \quad . \ \, \underline{\mathbb{Q}} \quad . \ \, \underline{\mathbb{Q}} \qquad . \ \,$  $\tilde{O}$   $\tilde{O}$ ....fb`j Yg`UbX`H]a a ]gž'&\$\$&L  $\tilde{O} \cdot \tilde{O} \quad \tilde{O} \cdot \tilde{O} \quad \tilde{O} \quad \tilde{O} \quad .$ · Õ · Õ · Õ · Õ · Õ· . Õ . . Õ . Õ . Õ . Õ .  $\tilde{O} \cdot \tilde{O} \cdot$ 

## $. \ \tilde{\mathsf{O}} \ . \ \tilde{\mathsf{O}} \$ . <u>Q</u> ... Q . Q . Q . Q . Q . Q . . . · Õ · Õ · Õ· Õ · Õ . Õ Õ Õ Õ Õ . Õ

45

 $\dot{\tilde{\mathbf{W}}} \quad \tilde{\mathbf{O}} \quad \tilde{\mathbf{O}} \quad \tilde{\mathbf{O}} \quad \tilde{\mathbf{O}} \quad \tilde{\mathbf{O}} \quad \tilde{\mathbf{O}} \quad .$ 

```
".fH]```UbX'; ]cf[]ž'% - - Ł     "%  ""%
  . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} .
   ·f97<DŁ Õ · Õ · Õ · Õ · · Ŭ
   . \tilde{\mathsf{O}} .... \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}}
                                                                                                                                                                          . Q . Q . Q . Q .. Q ..
                                                                                                     ""f% - + ·Õ·% - (Ł 'Ù 'Ù .
   ·, · Õ · Õ · Õ · Õ · Õ · Õ ·
.\ \tilde{\mathsf{Q}}\ .\ \tilde{\mathsf{Q}}\ .\ \tilde{\mathsf{Q}}\ .\ \tilde{\mathsf{Q}}\ .\ \tilde{\mathsf{Q}}\ .\ \tilde{\mathsf{Q}}\ .\ .\ .\ .\ .\ .\ .\ .\ .\ .\ .
  . \tilde{O} \cdot \tilde{O}
```

.  $\tilde{\mathsf{O}}$  .  $. \ \tilde{\mathsf{O}} \qquad . \ \tilde{\mathsf{O}} \qquad$  $\cdot \, \tilde{\mathsf{O}} \quad \cdot \hat{\mathsf{U}} \tilde{\mathsf{O}} \quad \cdot \, \tilde{\mathsf{O}} \quad \cdot \, \tilde{\mathsf{O}} \quad \cdot \quad \tilde{\mathsf{O}} \quad \cdot \quad \cdot \quad \cdot \, , \qquad \cdot \quad \cdot \, .$  $\cdot\quad \tilde{\mathsf{O}}\quad \cdot \tilde{\mathsf{O}}\quad \tilde{\mathsf$  $\cdots \ \tilde{\mathsf{O}} \ \cdot \ \tilde{\mathsf{O}} \ \tilde{\mathsf{O}$ · Õ · Õ · Õ· Õ · Õ · .  $\tilde{\mathbf{C}} = \tilde{\mathbf{C}} = \tilde{\mathbf{$  $...\tilde{O} \cdot \tilde{U} \cdot \tilde{O} \cdot \tilde{O}$ 

```
...\tilde{\mathsf{O}} \qquad ..\tilde{\mathsf{O}} \qquad .\tilde{\mathsf{O}} \qquad .\tilde{\mathsf{O
··¸t̀õ · õ ··¸· õ ··¸· õ ·· õ ·· õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ··"·fi
        \cdots \ \tilde{O} \qquad \cdots \ \tilde{O} \ \cdots \ \tilde{O} \ \tilde{O} \ \tilde{O} \ \tilde{O} \ \cdots \ \tilde{O} 
          .'. Q . Q . Q . F. Q . . Q . Q . Q .
        . Q . Q . `Q . `Q . Q . . Q . . . . . F.
· Õ · Õ · · ·ÙÕ · Õ·fl Õ · Ł Õ
                                                                                       · Õ · ÕŁÕ · Õ · Õ · Õ · Õ ·
```

•

.  $\tilde{\mathsf{O}}$  .  $\tilde{\mathsf{V}}\tilde{\mathsf{O}}$  .  $\tilde{\mathsf{E}}$  .  $\tilde{\mathsf{O}}$  .  $\tilde{\mathsf{O}}$ · Õ· Õ·,·Õ· · Õ · Õ · Õ · Õ · . Õ · ,·

.. .. .. .. .. .. ..

```
. \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . . . . . . . . . . . . .
. \ \tilde{\mathrm{O}} \ . \ . \ . \ . \ . \ .
   .\quad \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \quad \cdot \tilde{\mathsf{O}} \quad \cdot \tilde{\mathsf{O}} \cdot \quad \tilde{\mathsf
   \tilde{O} \cdot 
   · Õ·Õ · Õ · Õ·Õ · Õ·Õ·
```

""f1&&' '``&\$\$\$"· 'Ł" ' 

 $. \ \tilde{\mathsf{O}} \ . \ \tilde{\mathsf{O}} \$ 

.  $\tilde{\mathsf{O}}$  .  $\tilde{\mathsf{O}}$  .  $\tilde{\mathsf{O}}$  .  $\tilde{\mathsf{O}}$  . . .  $\tilde{\mathsf{O}}$  . . . . .  $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\cdot$   $\cdot$ . . .(\$. . . ·% -- ·fl&\$%:Ł Õ · Õ · Õ · Õ · Õ · Õ · Õ  $. \quad \dot{\mathbb{Q}} \quad . \\ \ddot{\mathbb{F}}^{-} + ( \ . \quad \tilde{\mathbb{Q}} \quad . \quad \tilde{$ · Õ·Õ·Õ·"Õ·"Õ·  $. \ \tilde{O} \ . \ \tilde{O}$ ·f&\$%%; Õ · Õ · Õ · , Õ · . Õ .. Õ . Õ . Õ . Õ . Õ · Õ · Õ · Õ · Õ · Õ · Õ · Õ · Õ · Õ · Õ · Õ · Õ · Õ · Õ · Ù 

.  $\tilde{O}$ .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  . . . ··,· Õ ·· Õ · Õ · Õ · Õ · Õ · Õ .  $\tilde{\mathsf{O}}$  .  $\tilde{\mathsf{O}}$  .  $\tilde{\mathsf{O}}$  .  $\tilde{\mathsf{O}}$  .  $\tilde{\mathsf{O}}$  .  $\tilde{\mathsf{O}}$  . · Õ · Õ · Õ · ¸ Õ · Õ · · Õ · Õ · Õ · Õ · Õ · Õ · Õ · Õ · ···&\$\$, ···· Ô ·Ł· Õ · Õ · Õ ·  $\cdot \, \tilde{\mathsf{O}} \, \cdot \, \, \tilde{\mathsf{O}} \, \cdot \, \tilde{\mathsf{O}} \, \, \tilde{\mathsf{O}} \, \cdot \, \tilde{\mathsf{O}} \, \cdot \, \tilde{\mathsf{O}} \, \cdot \, \tilde{\mathsf{O}} \, \cdot \, \tilde{\mathsf{O}} \, \tilde{\mathsf{O}} \, \,$ ·Õ·Õ·Õ·Õ·Õ·Õ·Õ·  $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$ 

 $. \quad \tilde{O} \quad \tilde{O$ . Õ . Õ . Õ . Õ . Õ . Ö . Ü · Õ · Õ · Õ · Õ · Õ · Ò · · · · · 

 $.\quad \tilde{\mathsf{O}}\cdot \tilde{\mathsf{O}}\cdot \tilde{\mathsf{O}}\quad \cdot \tilde{\mathsf{O}}\quad \cdot \quad \tilde{\mathsf{O}}\quad \cdot \quad \tilde{\mathsf{O}}\quad \cdot \quad \cdot \quad \cdot \dot{\mathsf{U}}\quad \cdot \dot{\mathsf{U}}\cdot$ .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  . · Õ · Õ · Õ · Õ · Õ · · Õ · Õ ·ÙÕ · Õ ·Õ  $. \quad \tilde{\mathsf{O}} \quad . \quad \tilde{\mathsf{O} \quad . \quad \tilde{\mathsf{O}} \quad . \quad \tilde{\mathsf{O}} \quad . \quad \tilde{\mathsf{O}} \quad . \quad \tilde{\mathsf{O} \quad . \quad \tilde{\mathsf{O}} \quad . \quad \tilde{\mathsf{O}} \quad .$ ···&\$\$, ···· Ô ŁÙÕ · Õ · · Õ · · Õ · · · · · · · ""fl+%  $\tilde{O} = \tilde{O} =$  $. \ \tilde{\mathsf{O}} \quad . \ \tilde{\mathsf{O}} \quad$ ·Õ · Ö · Õ · Õ · Õ · · · · · · Õ · Õ · Õ · Õ · Ù Õ · · · · · ·

```
.\ \tilde{\mathsf{O}}\ .\ .\ .\ .\ .\ .\ \dot{\mathsf{U}}\ .
               ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ...
. \ \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \ \cdot \ \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \ \cdot \tilde{\mathsf{O}} 
·ÚÕ ; Õ · Õ · Õ · Õ · Õ · Õ · · Ù
                                                                                                              \tilde{O} \quad \tilde{C} \quad 
               \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot
```

`````O```O```O```O```  $\cdot \ \tilde{\mathsf{O}} \ \cdot \ \tilde{\mathsf{O}} \$ 'Ł' Õ ˙Õ ˙fl+-&' Ł' Õ ˙Õ ˙Õ ˙fl, ' Ł'&\$%% . Q.Q.Q.Q.Q.Q.Q.Q.Q.Q. .  $\tilde{\mathsf{O}}$  .  $\tilde{\mathsf{U}}$  . . . .  $.\ \tilde{\mathsf{O}}\ .\ .\ .\ .\ .$  $.\ \tilde{\mathsf{O}} \ .\ .\ .\ .\ .$ 

.Q  $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$  $.\ \tilde{\mathsf{O}}\ .\ \tilde{\mathsf{O}}\ .\ .\ \tilde{\mathsf{O}}\ .\ .\ \tilde{\mathsf{O}}\ .$ .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  .  $\label{eq:continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous$ . Õ.Õ.Õ. ·,·Õ· · Õ· Õ· .  $\tilde{O}$  . .  $\tilde{O}$   $\tilde{U}\tilde{O}$   $\tilde{O}$   $\tilde$  $\tilde{O} \cdot \tilde{O} \cdot$  $\tilde{O} \cdot \tilde{O} \cdot$ ···"ff% '! %+ · · · · &\$\$- · · · · Ł

```
\cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \cdot \tilde{\mathsf{O}} \cdot \cdot \tilde{\mathsf{O}} \cdot \cdot
    . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . \tilde{\mathsf{O}} . . . . . \tilde{\mathsf{U}} .
      · Õ · Õ · Õ · Õ · Õ · . . .
    · Õ · Õ · Õ · ¸ · Õ · Õ · · · · · · ·
  ·,·Õ · Õ · Õ · Õ · Õ
   · Õ · ¸·Õ · Õ · Õ · Õ · Õ · Õ ·
    · Õ·ÒÕ · Õ·Õ · Õ·Õ ·Õ·Õ
   · · · Õ · Õ · Õ
···&$$*···· Ô 'Ł' Õ
   \tilde{O} \qquad 
  ""fl%*%" · · ·
   \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot
      .\ \tilde{\mathsf{O}} \quad .\
```

.  $\tilde{\mathsf{O}}$  .  $. \ \tilde{\mathsf{O}} \ . \ \tilde{\mathsf{O}} \$ . Õ .. Õ .. Õ .. Õ. . . . . . .Q .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  . . . . .  $\tilde{\mathbb{Q}}$  $\text{`fl\~O}\quad \tilde{\mathsf{O}}\quad \text{`\'L}\quad \tilde{\mathsf{O}}\quad \text{```}\tilde{\mathsf{U}}\tilde{\mathsf{O}}\quad \tilde{\mathsf{O}}\quad \dots\quad \tilde{\mathsf{O}}\quad \dots\quad \dots\quad \dots\quad \dots$ 

```
..., ff \tilde{O} ... \tilde
        . \tilde{\mathsf{O}} . . . .
        .\ \tilde{\mathsf{O}}\ \cdot\ \tilde{\mathsf{O}}\ \cdot\ \cdot\tilde{\mathsf{O}}\ \cdot\ \tilde{\mathsf{O}}\ \cdot\ \tilde{\mathsf{O}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \cdot\ \tilde{\mathsf{O}}\ \cdot\ \tilde{\mathsf{O}}\ \cdot\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O}\ \tilde{\mathsf{O}}\ \tilde{\mathsf{O
        \tilde{O} \cdot \tilde{O} \cdot \tilde{O} \cdot \tilde{O} \quad \tilde{O} \cdot 
        . \ \tilde{\mathsf{O}} \ . \ . \ . \ . \ . \ .
           .\ \tilde{\mathsf{O}} \ .\
```

.  $\tilde{O}$  .  $\tilde{U} = \tilde{O} \cdot \tilde{O} \cdot$  $\tilde{O} \cdot \tilde{O} \cdot$ .  $\tilde{\mathsf{O}}$  .  $\tilde{\mathsf{U}}$  . . . .  $\tilde{\mathsf{O}}$  . . . . . . . . . .  $\tilde{O}$  .

 $.\ \tilde{\mathsf{O}}\ .\ \tilde{\mathsf{O}}\ .\ \tilde{\mathsf{O}}\ .\ \tilde{\mathsf{O}}\ .\ \tilde{\mathsf{O}}\ .\ \tilde{\mathsf{O}}\ .$ . Õ . Õ . Õ . Õ . Õ . Õ . Ď . Ů · Õ · Õ · ¸ · Õ · · Õ · · Õ · · Õ · Õ · Õ · Õ · Õ ·  $\cdots \tilde{\mathcal{M}} = \tilde{\mathsf{Q}} + \tilde{$ ""fi&, ' ' ' &\$\$, ' ' L .  $\tilde{\mathsf{O}}$  .  $.\ \tilde{\mathsf{O}}\ .\ .\ .\ .\ .$  $\dot{\mathbf{U}} \quad \tilde{\mathbf{O}} \quad \tilde{\mathbf{$ 

 $. \ \tilde{O} \ . \ . \ . \ . \ .$ . Q.Q. Q.Q.Q. Q.Q.Q. · Õ · Õ · Õ · Õ · Õ · Õ · . . . Õ. Ü. . . Q . Q . Q . Q . . Q . . . Q . . . Q . . . Q . . . Q . . . Q . . . Q . . . Q . . . Q . . . Q . . Q . . Q . . Q . . Q . . Q . . Q . . Q . . Q . . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . Q . `,`fR\$%``,`Õ``Õ``,Õ``Õ``Õ``Õ``Õ``Õ``Õ . Q . Q . Q . Q . Q . Q . E.  $\tilde{O} \cdot \tilde{O} \cdot$ 

```
. \tilde{\mathsf{O}} . . . . . . .
             . \ \tilde{\mathsf{O}} \ . \ . \ . \ .
  · Õ · Õ ·Ù Õ · Õ · Õ ·
             · Õ · Õ · Õ · Õ · Õ · Õ ·
. \tilde{O} . 
            . \tilde{\mathsf{O}} .
```

.  $\tilde{\mathsf{Q}} \cdot \tilde{\mathsf{Q}} \cdot \tilde{$ O Õ Ł Õ Õ Õ Õ Õ Ö Ö IIII A  $.\quad \tilde{\mathsf{O}} \quad .\quad .\quad .$ 

.. .. .. .. .. .. ..

· · · · · · · · · · · · · · · · · · ·	·E · · · · · · · · · · · · · · · · · ·
	· · · · · ,fi
· · · · · · · · · · · · · · fl	· Eil
	ù Ù
	., ., ., ., ., ., ., ., ., ., ., ., ., .
ojejta.	
· · · (\$\$:Ù · · · · &\$%%	· · · · · · · · · · · · · · · · · · ·
C Arabia, o	"fl&\$%&: ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '

· Ł · · ·

. Õ.Õ.Õ.Õ.Õ.

· Õ · Õ · Ù Õ · Õ · Õ · ¸ Õ · · Õ · · Õ · · .

 $\tilde{S}_{\tilde{G}} = \tilde{G}_{\tilde{G}} =$ 

		· KO	••			
(8) "(					·')!&)	
% ")	8(	)		••	.();	
··&' "%	\$			••	.))!(*	
1 "%	<b>(</b> '('			)	*	
· %\$\$"\$	"% \$					

·)\*··Õ··Õ Ł· Õ · Õ · Õ · Õ · · · · · ·

. Q ''  $\{H^{\circ}\}$  "  $\{H^{\circ}\}$  "  $\{H^{\circ}\}$   $\{H^$ 

... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ...

:.f&£:Ø

(8) "(	••1-1	
") ' "%	*-	
·· <b>&amp;\$</b> "\$	8*	 
%")	&	, c
. i	··!	 10)
· %\$\$"\$	"% \$	

 $\cdots \ \tilde{\mathsf{O}} \ \cdot \tilde{\mathsf{O}} \ \cdot$ 

 $. \ \tilde{O} \ . \ \tilde{O}$ 

··, ")	%		
", %")	··%*		
\$",	%		
··- "&	%&	Ø	
· %\$\$"\$	"% \$		

""fl \$", Ł

`.f(ŁØ

	•			
	**"_	··, +		
	%%")	%)		. F
	"%	(	7,8,	
	. i	: <u>:</u>		fl
	· , %")	··%*		

 $. \ \tilde{O} \ . \ \tilde{O}$ 

:fl ŁØ

+"+	(-	" )!%	
) &"'	*,	%! *	
··%\$"\$	%	%	
· %\$\$"\$	"% \$		

.  $\tilde{O}$  .  $\label{eq:control_equation} \text{`fl} \ ' + " + \text{Ł'} \ \tilde{O} \ ' \ \tilde{O} \ ' \text{fl} - \text{Ł'} \ \tilde{O} \ ' \ \text{fl} \ ') \ ! \ \% L' \ '$ .  $\tilde{O}$  .

	$\boldsymbol{\varepsilon}$	.11 110	
("*	()		
) +"+	+)		
"%	(	*\$\$!(\$%	Ø
i	i	" ', \$\$! *\$%	
"("*	**	" ', \$\$' ·	
· %\$\$"\$	"% \$	- 3	

· Õ·Õ · Õ · Õ · Õ · Õ · Õ · · Õ · · fl ' ("\*Ł · · · ·fl) Ł ·  $\label{eq:control_eq} \text{`fl } (\text{"*Ł } \tilde{\text{O}} \text{ '} \text$  $\tilde{O} \cdot \tilde{O} \cdot \tilde{f} \cdot \tilde{O} \cdot *\$\$'! (\$\%L) \quad \tilde{O} \cdot \tilde{O} \cdot$ .  $\tilde{O}$  . $\tilde{U}$   $\tilde{O}$  .  $\tilde{O}$  . $\tilde{O}$  . $\tilde{O}$  . $\tilde{H}$  ,  $\tilde{U}$  . $\tilde{O}$  . $\tilde{O}$  . $\tilde{U}$  . $\tilde{U}$  ... ...  $. \ \tilde{\mathsf{O}} \quad . \ \tilde{\mathsf{O}} \quad$ 

. Õ . Õ . Õ . Õ . Õ . Õ . . . . · Õ · Õ · Õ · Õ · Õ · Õ · . Õ. Õ.Õ.Õ. Õ. Õ. Õ. Õ.

		. 12		
··) ' ",	"+\$	4	"Ø	
"%+"+	8;		"Ø .	
8(*	&	:101		
!!	)		"Ø .	
· %\$\$"\$	"% \$			

· Õ · Õ · · Õ · Õ · Õ · Õ ·

'fl Õ 'ŁÕ'Õ 'Õ 'Õ' Õ'Õ', fl)' ", ŁÕ ' 'fl\$Ł 'Õ 'flÕ ' ÖŁÕ' Õ'Õ'Õ'fl(&"\*ŁÖ 'fl&£'

· · ÙÕ Õ · Õ · Õ · Õ · fl %+"+Ł Õ · · · fk½ Ł · ·

.  $\tilde{\mathsf{O}}$  ... $\tilde{\mathsf{I}}$   $\tilde{\mathsf{E}}$  ... $\tilde{\mathsf{O}}$  ... $\tilde{\mathsf{O}}$  ... $\tilde{\mathsf{O}}$  ... $\tilde{\mathsf{O}}$  ... $\tilde{\mathsf{O}}$  ... $\tilde{\mathsf{E}}$  ...

·"fl '", Ł

· .fl ŁØ

··& "&	,	 . F
··&ˈ ",	%	 
· ) ' "%	*-	 "fØ

. Q . Q . Q . Q . Q . L Q . Q . Q . L Q . Q .
. $\tilde{O}$ .
· Õ · Õ · Ò · Õ · Õ · Õ · · · · · · · ·
· Õ · Õ · Õ · ÒÕ · Õ · · · · · · · · · ·
·" · · · · · · · · · · · · · · · · · ·
··*"& ··,
*
··(' ",
"\$", "% "ifØ"
·) +"+
Õ Õ Õ
· Õ · Õ · Õ · Õ · · · · · · · · · · · ·
· Õ · Õ · Õ · Õ · · · · · · · · · · · ·
· Õ · Õ · Õ ·
· ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○
· ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○
<ul> <li>○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○</li></ul>
<ul> <li>○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○</li></ul>

		·		
··%+"+	··&ˈ			
· ÷- "&	··%	·	, ,	. Q
"%	(		"1	
%\$\$"\$	"% \$	·		35

 $\tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdots \tilde{\mathsf{$ 

·Õ · Õ ·fk Ł Õ · Õ · Õ · Õ · Õ · Õ

				•	
··, +"+	%((	:10)			
· - "&	··%&		 1	•	· · · · · · · · · · · ·
"%	(	· KO			Ø
. %\$"\$	··% \$				

&( "*	&	tJ . F.	
"(' "%	) *		
\$",	%		. F
%"&	8%		tl
"%	(		
· , +"+	%%(		

 $\tilde{O} \cdots \tilde{O} \cdots$ ·fl & "\*Ł Õ · Õ ·fl &Ł Õ · Õ · Õ ·ff  $\tilde{O} \cdot \tilde{O} \cdot$ ""fl \$", Ł `.f% ŁØ ··\*, ") ...88;"' ..- "& ··% . %\$\$"\$ "%\$ · Õ · Õ · Õ · ¸fl \*, ") Ł ˈf] - Ł .tl%F. `.f%( Ł:Ø ...(8... ..(\*"-..\*% ..%"& ..8% ..%%") ..%)

.......

. %\$\$"\$

"%\$

.  $\tilde{O} \cdot \tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  . . . . .  $\tilde{O} \qquad \tilde{O} \qquad$  $\cdots \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdots \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}}$ ""fl %%") Ł `.f%) Ł:Ø ..% "%", ··) ( "\* ..+% ...&+"+ "%\$ . %\$\$"\$ 

""fl ' ", Ł

··<sub>1</sub> · · · · · · .Ø .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  . . .  $\tilde{U}$  $\tilde{O}$   $\tilde{O}$   $\tilde{O}$   $\tilde{O}$   $\tilde{O}$   $\tilde{O}$ Ù. · fl `.f%\* Ł'Ø "Ø ··) , ") ..% ", ..% "% \$ . %\$\$"\$ · Õ ·fl+\*Ŀ Õ · Õ · Õ · Õ · Õ · Õ ·

""flGijbers and Vrooman, 2008)"

••

`.f%+ŁØ

			"Ø
(8) "(	1 1	··	· · · Ø · · · Ø
+( "*	+		<sub>1</sub> .
· %\$\$"\$	"% \$		, 6

 $.\quad \tilde{\mathsf{O}} \qquad .\quad \tilde{\mathsf{O}}\cdot \tilde{\mathsf{O}} \qquad .\quad \tilde{\mathsf{O}} \qquad .\quad \tilde{\mathsf{O}} \qquad .\quad \tilde{\mathsf{O}} \qquad .\quad \tilde{\mathsf{O}}$ 

· Õ · Õ ·Õ ·¸fl +("\*Ł Õ · · Õ ·fl +Ł Õ · · Õ

'ÙÕ ' Õ 'Õ 'Õ 'Õ 'fFigueroa,1999) 'Õ '

 $\cdot$   $\tilde{O}$   $\cdot$   $\tilde{O}$   $\cdot$   $\tilde{O}$   $\cdot$   $\tilde{O}$   $\cdot$   $\tilde{O}$   $\cdot$ 

`.f% ŁØ

 •		 "Ø
8*	)	
. 8*.8	(	
( *	**%	 1
· %\$\$"\$	··% \$	

```
\cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot
· Õ · Õ · Õ · Õ · Õ · Õ · H &* "- Ł · · · · · fl ) Ł:
\tilde{O} \quad 
. \tilde{O} . \tilde{O} . \tilde{O} . \tilde{O} . \tilde{O} . \tilde{O} . \tilde{O}
. \tilde{O} . \tilde{O} . \tilde{O} . \tilde{O} . \tilde{O} . \tilde{O}
   `.f% ŁØ
  ...Ø
  "Ø
  ..% "(
   ..8(
   ..%%
   Ŀ
  . 8* "(
   Õ.Õ
 · Õ ·Õ ·¸fl %) "(Ł Õ
   ÕHASEÕ
  \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot
```

. Q . Q . Q . Q .

· Õ ·Ù Õ · Õ · Õ · · · · ·Ù ·

		 "Ø
( ' ",	) +	
· %",	%(	 
() "(	) -	
. %\$"\$	%\$	 45

....

 $. \quad \tilde{O} \quad . \quad \tilde{O} \quad . \\ \tilde{O} \quad . \quad \tilde{O} \quad . \\ \tilde{O} \quad . \quad \tilde{O} \quad . \\ \tilde{O}$ 

·Õ·Õ·Õ·Š", ŁÕ·Õ·fl/(Ł·······

 $. \ \tilde{\mathsf{O}} \ \cdot \cdot \cdot \tilde{\mathsf{O}} \ \cdot \ \tilde{\mathsf{O}} \ \cdot \tilde{\mathsf{O}} \ \cdot \tilde{\mathsf{O}} \ \cdot \tilde{\mathsf{O}} \ \cdot \tilde{\mathsf{O}} \ \tilde{\mathsf{O}} \ \tilde{\mathsf{O}} \ \tilde{\mathsf{$ 

:0°

......

			Q
( "*	.*		
· ; - "&	%%		Ø
*"&			1
· %\$"\$	%\$	·	

 $.\ \tilde{\mathsf{O}}\ .\ \tilde{\mathsf{O}}\ .\ \tilde{\mathsf{O}}\ .\ \tilde{\mathsf{O}}\ .\ \tilde{\mathsf{O}}\ .\ .\ \tilde{\mathsf{O}}\ .\ .\ .\ .\ .\ .\ .\ .\ .$ 

·Õ·Õ·Õ·¸fl, - "&Ł·Õ· Õ·fl\%\*Ł· · · · · ·

 $\text{-fft} \, \tilde{\mathsf{C}} \, \tilde{\mathsf{O}} \, \tilde{\mathsf{$ 

.  $\tilde{\mathsf{O}}$  . . . . . .

 $\tilde{O}$   $\tilde{O}$ 

`.f&' Ł'Ø

.fk&£:0

			"Ø
··+%")	··- '		
%"-	···8&	Ø	
··\$",	%		
· , - "&	%*		0

		 "Ø
··&ˈ ",	%	
( &;"	))	 
··&\$"\$	8*	 
% ",	%	
· %\$\$"\$	··% \$	

 $.\ \tilde{\mathsf{O}}\ .\ .\ .\ ..$ · Õ·Õ·Õ·Õ·Õ·Õ·Õ·Õ·Õ·  $\tilde{O} \quad \tilde{O} \quad$ · Õ·Õ·Õ·Õ·Õ·Õ·Õ· 'Ù Õ · Õ · Õ · Õ · Õ · Õ · Õ · Õ · Õ · Š 

••

..

. Q :

`.f&( Ł:Ø

		··	Ø
i	··!		
··_ *"_	%&*		
"%	(		
· %\$"\$	··% \$		

... Q ...

\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\t

		 "Ø
··\$",	%	 · · · · · · Ø
· - , ")	···%&,	 
··\$",	%	 1
· %\$\$"\$	:%\$	

 $\tilde{O} = \tilde{O} + \tilde{O} +$ 

 $.\ \tilde{\mathsf{O}}\ .\ \tilde{\mathsf{O}}\ .\ \tilde{\mathsf{O}}\ .\ \tilde{\mathsf{O}}\ .\ .\ \tilde{\mathsf{O}}\ .\ .\ \tilde{\mathsf{O}}\ .\ .\ \tilde{\mathsf{O}}\ .$ 

 $\ \ \ \ \tilde{O} \ \ \tilde{$ 

""f&\*Ł

		 Q
**"_	(,	
, ")	") \$	
**"_		
··%",	%(	 "1
) "'	+	
· - , ")	%&;	

..

.f&+ŁØ

		·	Q
") ' "%	*-	·	· · · · · · · · · · · · · · · · · · ·
. ( ' ",	) +		
"%	(		1
· %\$\$"\$	%\$		167

· Õ · Õ · · · · Õ · ·Õ · ·Õ · Õ · Õ

· Õ · Õ ·Õ ·¸fl ) ˈ "Æ: Õ · Õ ·fl\*-Ł· · Õ

. Q . Q .Q .Q .Q . Q . Q .

ÙÕ·Õ·Õ·Õ·Õ·Õ

			Q
··&\$"\$	8*		
··, ")	%		
··%+"+	&;		1
··*"_		H F	
·)'"%	*-		

 $\cdot$   $\cdot$   $\tilde{O}$   $\cdot$   $\tilde{O}$   $\cdot$   $\tilde{O}$   $\cdot$   $\tilde{O}$   $\cdot$   $\tilde{O}$   $\cdot$   $\tilde{O}$   $\cdot$ 

· Õ · Õ · Õ · Õ · Õ · · · · ¸fl &\$"\$E · · · ·f&\*E

 $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$ · 'fl %+"+Ł .  $\tilde{O}$  ...  $\tilde{O}$  . ""fl'", Ł' 'flŁ . Ø ... Ø ··, ) "( ..%% ..%( "\* ∵% ··% \$ · %\$\$"\$ Õ .. Õ .. Õ . Õ . Õ · Õ · Õ · Õ · Õ · Õ · Õ · Ť: .  $\tilde{O}$  ...  $\tilde{O}$  ...  $\tilde{O}$  ...  $\tilde{O}$  ...  $\tilde{O}$  ...  $\tilde{O}$  $\tilde{O} \cdot \tilde{O} \cdot$  $\tilde{O}$   $\tilde{O}$   $\tilde{O}$   $\tilde{O}$ :.fl \$ŁØ

			"Ø
··&\$"\$	8*	·	Ø
··, \$"\$	%(		
· %\$"\$	··% \$		

 $.\ \tilde{\mathsf{O}}\ .\ .\ .\ .\ .$  $\label{eq:continuous_series} \footnote{The states of the states} \footnote{The states}$  $.\ \tilde{\mathsf{O}}\ .\ \tilde{\mathsf{O}}\ .\ \tilde{\mathsf{O}}\ .\ \tilde{\mathsf{O}}\ .\ \tilde{\mathsf{O}}\ .\ \tilde{\mathsf{O}}\ .\ .\ .\ .\ .\ .$ . Q . Q . Q . Q . Ll . S., F. Q . Q . Ll . S., F. Q . . Q . Ll . SF. Q . 

...

••

.Q

`.fl %Ł:Ø

		 "Ø
··, \$"\$	%(	 
· % "&	8)	 
· \$", "	%	 
· %\$"\$	% \$	

... Q . Q . Q .. Q .. Q .. Q .. Q ..

·Õ ·Õ·Õ·Õ·Õ;fl,\$"\$ŁÕ

			··	"Ø
ſ	··% ",	%		· · · · · · · · · · · · · · · · · · ·
	··, *"&	%%		·· <sub>1</sub>
	· %\$\$"\$	··% \$		

 $\tilde{O} = \tilde{O} =$ 

.  $\tilde{O}$  . . . .

.  $\tilde{O} \cdot \tilde{O} \cdot \tilde{O}$  $.\quad \tilde{\mathsf{O}} \qquad \tilde$ . Ø ... Ø "Ø .. &\* "-· ÷&"' ··\$", . %\$\$"\$ "%\$ · Õ · Õ · Õ · Õ · Õ · Õ ·Õ ',fl +&"' Ł Õ .  $\tilde{O}$  .tl (F,  $\tilde{O}$  .  $\tilde{O}$ ""fl &\*"- Ł 'fl) Ł ʻ.fl (ŁØ

		 "Ø
··&ˈ ",	%	 ø
*) "(	··, )	 ]
··%",	%(	 1
· %\$\$"\$	% \$	

. Õ . Õ . Õ . Õ . Õ . . . . . ·fl %Ł:  $\cdot\quad\tilde{\mathsf{O}}\quad\tilde{\mathsf{O}}\quad\tilde{\mathsf{O}}\quad\tilde{\mathsf{O}}\quad\tilde{\mathsf{O}}\quad\tilde{\mathsf{O}}\quad\tilde{\mathsf{O}}\quad\tilde{\mathsf{O}}\quad\tilde{\mathsf{O}}\quad\tilde{\mathsf{O}}\quad\tilde{\mathsf{O}}\quad\tilde{\mathsf{O}}\quad\tilde{\mathsf{O}}\quad$ .Q . . . . *...*Ø ..Ø ..8% ..%"& ..) ..8€ "% ") ..8+ · &\$", ..) ' ··(\$", "%\$ . %\$\$"\$ . Q .U.  $\tilde{\mathsf{O}} \; \cdot \; \tilde{\mathsf{O}} \; \mathsf{O} \; \; \tilde{\mathsf{O}} \; \mathsf{O} \; \tilde{\mathsf{O}} \; \mathsf{O} \; \mathsf{O$ ..Õ ʻ¸fl &\$", Ł "fl'", Ł' 'flŁ' ' ٠Ď. `.fl \*Ł'Ø ..Ø ..++ ..) - "& ···(, · • \*"\_ . Ø . Ø .. 1 ..) · %\$\$"\$ ··% \$

..

*	(,	
%( "*	%	
+"+	··%\$	
( "*	()	
( "*	*	
%")	&	
· %\$\$"\$	% \$	

 $.\ \tilde{\mathsf{O}}\ .\ .\ .\ .$ 

		·	"Ø
*"&	(+		10
··*\$"\$	·· <sub>+,</sub>	· · · · · · · · · · · · · · · Ø	· · · Original of the control of the
. • "%	(		1
\$",	%		
· %\$"\$	%\$		

`.fl - Ł'Ø

			"Ø
+*	··%\$\$		
8%;)	··&;		
· \$",	%	"fl · · · Ł ·	<sub>1</sub> · ·
··\$",	%		
· %\$\$"\$	··% \$		

. Õ . Õ . Õ . Õ . Õ . . . . . . .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{I}$  +\*"-  $\tilde{I}$  .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{I}$  .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  .  $. \quad \tilde{O} \cdot f \& \; \dot{E} \cdot \tilde{O} \cdot \cdot \tilde{O} \quad \cdot \dot{U}$  $. \ \tilde{\mathsf{O}} \, .. \, \tilde{\mathsf{O}} \, .. \,$  $\tilde{O}$   $\tilde{O}$  $. \ \tilde{\mathsf{O}} \ \cdot \tilde{\mathsf{O}} \ \tilde{$ · Õ · Õ · Õ · Õ · ÒÕ · ÒÕ  $\cdot$   $\tilde{\mathsf{o}}$   $\cdot$   $\tilde{\mathsf{o}}$   $\cdot$   $\tilde{\mathsf{o}}$   $\cdot$   $\tilde{\mathsf{o}}$   $\cdot$   $\tilde{\mathsf{o}}$   $\cdot$   $\tilde{\mathsf{o}}$ · Õ · Õ · Õ · Õ · Õ · · Õ · Õ · Õ · Õ · Õ · Õ · Õ · Õ · Õ · · Õ · Õ · Õ · Õ .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  .

.Q

`.f( \$ŁØ

				"Ø
	·· &* "-	)		
	·· 1 1 11	((		
	··&\$"%	··· &*		
	· % "&	8)		
	· %\$"\$	··% \$		1
•	Õ·Õ·Õ	. Q . Q .	ĎO	O* .
	A''",ŁÕ	Õ f(Łť	o. o. o. q.	
. (	(lì. Q . Q	ŁÕ. Õ	· Õ · Õ · Õ · Õ	. Õ
•	·Õ.uk.F.Õ.	Õ Ō	· Õ	
•	Õf&ŁÕ	. Q . Q	Õ	· · ·fl &\$"%L
		016		""fl %+"+Ł
		30		
		Ø		·

`.f(%£:Ø

		 Ø
··\$",	%	 Ø
· - +"+	"‰+	
··%')	&	 1
· %\$\$"\$	··% \$	

 $\tilde{O} \qquad \tilde{O} \qquad$ 

.  $\tilde{\mathsf{O}}$  .  $\tilde{\mathsf{O}}$  .  $\tilde{\mathsf{O}}$  .  $\tilde{\mathsf{O}}$  .  $\tilde{\mathsf{O}}$  .  $\tilde{\mathsf{O}}$  . . . . . . . .

·Ù··

			"Ø
*("*	", (	·	
· F I II	((		
··%')	&		1
· %\$\$"\$	% \$		

		 "Ø
(*"&	*\$	
.) %')	*+	 
8	1	 1
· %\$\$"\$	% \$	

· Õ · ·Õ · Õ · Õ · Õ · Õ · Õ · Õ · · · ·¸fl ) %') Ł: · · · ·fl\*+Ł

· Õ · Õ · Õ · Õ · Õ · Õ · Õ · fl (\*"&£'Õ · · · ·ff\*\$£: ·

		 "Ø
' ",	··%&&	 
· %')	&	Ø
( "*	**	 1
· %\$"\$	··% \$	

		 "Ø
%%;;;	%	
8, ",	%	
& ")	+	 
%"-	88	 
· %"-	%(	
··+"+	··%	
· %\$\$"\$	"%\$	

 $.\quad \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \quad \cdot \quad \cdot \quad \cdot \quad \cdot \\$ 

 $\tilde{O}_{,}^{\circ}fl \,\,\&\,\,\ddot{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}fl \,\,\&\,\,\ddot{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}\tilde{O}_{,}^{\circ}$ 

· Õ ·Õ ·Õ ·Õ·Õ ·

 $\tilde{O} = \tilde{O} =$ · · · · Õ · Õ · Õ · fl % "- Ł Õ · · Õ · fl&L Õ · · Õ · . Q . Q . Q . Q . Q . Q . .  $\tilde{Q}$  .  $\tilde{Q}$  .  $\tilde{Q}$  .  $\tilde{Q}$  .  $\tilde{Q}$  $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$ ..'. Q . F. Q . Q . Q . Q . Q . Q .  $\tilde{O}$  .  $\tilde{O}$ . Õ.Õ.Õ. Õ. ',( Anne Daly , 2006 )' Õ ""( Nick Bailey , 2004 )

		 "Ø
"()"(	) -	
*"&	(+	 
· %"-	··8&	
%")	&	 1
· %\$\$"\$	··% \$	

· Õ·Õ·Õ·Õ·Õ· Õ· · ·ù · · · ·

.  $\tilde{O}$  ·f] - Ł  $\tilde{O}$  ·  $\tilde{$ 

 $\tilde{O} = \tilde{O} =$ · Õ · Õ · Õ · fl % "- Ł Õ · Õ · fk&Ł · Õ · Õ·Õ · Õ · Õ · Õ · .  $.\ \tilde{\mathsf{O}}\ .\ \tilde{\mathsf{O}}$ .  $\tilde{O} \cdot \tilde{O} \cdot \tilde{O}$ · Õ·Õ·Õ·¸ Õ ·ÙÕ · Õ·Õ ·Õ · Õ · ÒÕ · Õ · Õ · Õ · Õ · Õ · õ · õ · õ · õ · õ · õ · Õ · Õ · Õ · Õ (Sayed ,etal, 2007) (Assad 'Õ ·Õ·Õ ·Õ ·Õ  $. \ \tilde{\mathsf{O}} \ .. \$ 

> .. .

. Ø `.f(+Ł'Ø

			Q
··- "&	%&		ċ
··%s"\$	%		
&"'	( &		
. (*"&	**\$		1
&"'			1
· %\$\$"\$	%\$	0	<i>y</i> .

· Õ ·Õ ·Õ·Õ·Õ

.  $\tilde{O}$  .

ʻ.f(, Ł:Ø

		 Ø
!	··!	
··%",	%(	 ø <b> </b>
··+\$",	··- &	
· % ",	%	 
( "*	**	
· %\$\$"\$	··% \$	

 $\tilde{O} = \frac{1}{2} \operatorname{fl} + \tilde{O} = \tilde{O}$ 

35.4	46	
30.0	39	
13.8	18	
20.8	27	
100.0	130	7.0

... O ... O

.

..

i.fJ \$ŁØ

			Ø
73.8	96	Q	
26.2	34		
100.0	130		1Ø .

· · Õ · Õ · Õ· Õ· Õ· Õ

· Õ · Õ · Õ · Õ · Õ · Õ · ¸fl +' ", Ł

· Õ · Õ · fl &\* "&Ł Õ · Õ · fl (Ł Õ · Õ

 •	i C	 "Ø	
2.3	3		
94.6	123	 	· Ø
3.1	4	 1	·
100.0	130		

 $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\cdot$   $\cdot$   $\cdot$ 

· Õ · Õ ·Õ ·¸fl - ( "\*Ł Õ · · Õ ·fl%' Ł ·

 $\tilde{O} \quad \tilde{O} \quad$ 

'fl &''' Ł

		 "Ø
3.1	4	 
94.6	123	 
2.3	3	 
100.0	130	 10

 $\cdots \ \tilde{O} \ \cdots \tilde{O} \ \cdots \tilde{O} \ \cdot \tilde{O} \$ 

..."fl ' "%Ł

..

			"Ø		
33.1	43	. 6			
17.7	23	0,0			
46.9	61				
2.3	3				
100.0	130				

 $.\quad \tilde{\mathsf{O}} \quad ..\quad \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \quad . \quad \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \quad . \quad \tilde{\mathsf{O$ 

· Õ ··Õ · Õ · Õ · Õ ·fl ' ' "%Ł: · · · ·fl( ' Ł: ·  $\cdots \tilde{\mathsf{O}} \cdots \tilde{\mathsf{O}}$ ... Õ . Õ . Õ . Õ . . . . . § . § . § . § . § . . . . . Q. Q. . Q. Q. Q. . Q ·Õ "·Õ · Õ · Õ · Õ ·  $. \ \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \ \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}}$ . Õ . . Õ . ČÚ . Õ . Õ Õ Õ Õ Õ Ü . Q ... Q .fJ (ŁØ ..Q 25.4 33 . Q

74.6

100.0

97

 $\dot{\mathbf{U}} \ \tilde{\mathbf{O}} \ \dot{\mathbf{O}} \ \dot{\mathbf{$  $\tilde{O} = \tilde{O} \cdot \tilde{O} \cdot$  $.\quad \tilde{\mathsf{O}} \quad \dots \quad \dots$ .. \omega (\text{E} \cdot \text{fl'E} \cdot \text{S} \cdot \text{O} \cdot \text{O

		"Ø
98.5	128	 
1.5	2	 
100.0	130	 ··1

.  $\tilde{O}$  .

.  $\tilde{\mathsf{O}}$  . . . . .

Ł

		 Ø
93.8	122	 
6.2	8	 E
100.0	130	 fl fl

··Õ · Õ · Õ · Õ · ¸fl - ' ", Ł Õ · Õ 'f‰&£

·fi Õ ·· Õ ·· Õ ··Õ ··Õ ·

 $\tilde{O} = \tilde{O} =$ 

 $\tilde{O}$   $\tilde{O}$ 

		 Ø
99.2	129	 
0.8	1	 · · Ø · · ·
100.0	130	 1

... Õ .. Õ . Õ . Õ .. Õ .. Õ

ʻ.fJ, ŁØ

••			··			"Ø			
	90.0	117		•		•	•	•	. Q
	10.0	13			•		•	٠	
	100.0	130						1	

 $\tilde{O} = \tilde{O} =$ 

·· Õ ·· Õ ·· Õ · Õ · Õ · · · · · · · ;fl - \$"\$Ł · ·

 $\text{`flle F. $\tilde{O}$ ' $\tilde{O}$ ' $\tilde{O}$ ' $\tilde{O}$ ' $\tilde{O}$ ' $\tilde{O}$ ' }$ 

 $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$   $\tilde{\mathsf{O}}$   $\cdot$ .  $\tilde{Q}$  .  $\tilde{Q}$  .  $\tilde{Q}$  .  $\tilde{Q}$  .  $\tilde{Q}$  .  $\tilde{Q}$ 75.4 98 24.6 32 100.0 130 Õ .. Õ  $\tilde{O} \quad \tilde{O} \quad \tilde{O} \quad \tilde{H}, \; \tilde{E} \quad \tilde{O} \quad .$ ·fl &Ł: · Õ 'fl &("\*Ł' Õ ·fl .. Õ ·Ù ""à

 $\cdots\cdots \tilde{\mathsf{O}} \qquad \tilde$ ·Ù . . Q . Q . Q . Q . Q . Q . Q · Õ· Õ · · · Õ · Õ · · · Õ · · · Õ · · · Õ  $. \ \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \ \cdot \ \tilde{\mathsf{O}} \ \cdot \$ .  $\tilde{\mathsf{O}}$  . . . . . . .  $\tilde{O}$  ...

.  $\tilde{O} \cdot \tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{U}$  . . . Õ. Õ . Õ . Õ . Õ . Õ . Õ . . Q . Q . Q . Q . Q . Q . Q . Q  $\cdot \ \tilde{\mathsf{O}} \ \cdot \\$ · Õ · Õ · Õ · Õ · Õ · .  $\tilde{O}$  . .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  .  $\tilde{O}$  . . . . . . . . . . . . .  $\tilde{\mathsf{O}}$  .  $\tilde{\mathsf{O}}$  .  $\tilde{\mathsf{O}}$  .  $\tilde{\mathsf{O}}$  .  $\tilde{\mathsf{O}}$  . . . . . . . . . . . . .  $\tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} = \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} + \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} = \tilde{\mathsf{O}} \cdot \tilde{\mathsf{O}} + \tilde{\mathsf{O}} = \tilde{\mathsf{O}} + \tilde{\mathsf{O}} = \tilde{\mathsf{O}} + \tilde{\mathsf{O}} = \tilde{$ 

· Õ ·Õ "·Õ · Õ · Õ · · · · · · . Õ. Õ . Õ . ČÕ . Õ . . . .  $\tilde{O} \cdot \tilde{O} \cdot$ ""  $\tilde{O}$  " $\tilde{O}$  "  $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  " $\tilde{O}$  "

..

... . ... .

··,2···,‴Ô · Ô · Ô · Ô · Ô · · · · // ff11982·Ł · · · · · •

• "3579"

• f2009£

‴f**l** 999Ł ·‴f2005Ł ····fl2006 ·Ł "fl1999'Ł Õ ·ØĴ 

```
. Ô . Ô . Ô .
                   · "fl2003 'Ł'
              `¸4` `¸Ù ` `¸
                 . .Q
                          ·"fl2000 E
····fl2009 'Ł'
                        · · · · · · · · · · fl1994 · Ł Ù · ·
  . .F.
                          . Õ . Õ . "...
                       ·‴fl2001 'Ł' 'Ù
```

```
· Ô · Ô · Ô · · · · · · · · · · · · · fl1997 · Ł · ·
                        ·‴fl1997 Ł
····· Ô · · Ô · ·····f2009Łifi Ô Ł
   ····fl2003 ·Ł
  ‴f2002Ł
  ·‴f2007Ł
                                      ‴f2011Ł
```

- Alves, Denisard and Christopher Timmins (2001), social exclusion and the two – tired healthcare system of Brazil, New York: Inter-American developments Bank.
- Assad, Regui and Ghada Barsoum (2007), Youth Exclusion in Egypt: in search of "second chances", the middle east youth initiative working paper.
- Bailey, Nich, et al (2004), Deprivation and social exclusion in Argyll and Butte, report to the community planning Partnership, Scottish
   Center for research on social justice, universities of Glasgow and Aberdeen.
- Barandsma, Jittie (2000), Education, equality and social exclusion, DG-research of European commission under the key action "improving the socio-economic knowledge Base".
- Bejahovic, Predrag (2003), poverty, inequality and social exclusion, in the European Union and Croatia, the European concil meeting in the saloniki on 20 June, Draft treaty establishing a constitution for Europe.
- Bohnke, Petra (2001), Nothing left to lose? Poverty and social exclusion in Comprison, Berlin: Social Science Research Center Berlno.
- Bossert, Walter, et al (2005), Deprivation and social exclusion, Canada:
   social sciences and humanities research council of Canada.
- Bradshaw, Jonathan. et al (2000), The Relationship Between Poverty
   And Social Exclusion In Britain, UK: social policy.
- Chakravarty, Satya and Conchtta Ambrosio (2006), the measurement of social exclusion, Review of income and wealth, UK: Blackwell, series 52, Number 3.

- Columbia University (2003), Beyond Child poverty: The Social Exclusion of children, the clearinghouse on international developments in child, youth and family policies.
- Dahl, Espen, et al (2005), poverty dynamics and social exclusion an analysis of Norwegian Panel data, Chicago: social welfare and social policy.
- Daly, Anne, et al (2006), Indicators of social exclusion for Australia's children: An analysis by state and age group, Australia: NSTSEM.
- Daly, Mary (2003), social exclusion as a concept and policy template in the European Union, Belfast: school of sociology and social policy.
- Daly, Mary, Social exclusion as concept and policy template in the European union, center for European studies, working paper series 135.
- Figueroa, Adolfo (1999), social exclusion and rural underdevelopment,
   Washington: world bank conference on evaluation and poverty
   reduction ,D.C., June 14 15.
- Gijsbers, Gerda Jehoel and Cok Vrooman (2008), social exclusion of the elderly a comparative study of EU member states, EU: ENEPRI research report, No 57 AIM WP8.1.
- Gijsbers, Gerdajehoel and Gok Vrooman (2008), social exclusion of the Elderly: A comparative study of EU member states, European vet work of economic policy.
- Kalinowski, Slawomir (2010), social exclusion in the rural areas chosen indicators in the region of Wilkopolska, Poland: the Poznan university of life science.
- Le Grand, Julian (2003), Individual choice and social exclusion, London: Center for Analysis of social exclusion.

- Leonardis, Ota (2000), fighting social exclusion: between economic development and social wellbeing, Rome: UN office of project services.
- Levitas, Ruth, et al (2006), the concept and measurement of social exclusion, poverty and social exclusion in Britain, Bristol: policy press.
- Ofak, lana (2006), poverty, unemployment and social exclusion, UNDP.
- Oh, Gunwha (2010), Identfying Social Exclusion in children's after school activities limited by mobility, New York.
- Omtzigt, Dirk-Jan (2009), survey on social inclusion: theory and policy, Report working paper.
- Ottmann, Juliane (2010), social exclusion in the walfare state: the implications of walfare reforms for social solidarity and social citizenship, Distinktion, No 20, 23 37.
- Pardhan, Rajendra (2006), Understanding social exclusion and social inclusion in the Nepalese context: some preliminary Remarks, social science Baha and the social inclusion research fund secretariat.
- Poggi, Ambra (2003), Does Persistence of social exclusion exist in Spain? Barcelona: Generalitate de catalunya.
- Priya, Tanu and Andre Uteng (2003), The dynamics of social exclusion: some in sights from Norway, www.transport.uwe.ac.uk/yons-inagural.
- Research Team (2005), Social exclusion and political engagement,
   London: The Electoral Commission.
- Robila, Mihaela (2006), Economic pressure and social exclusion in Europe, New York: The social science Journal 43,85 - 97.
- Rodgers, Gerry, et al (1995), Social Exclusion: Rhetoric reality,
   Responses, International Institute for labour studies, United nation
   development programme.

- Seutella, Rosanna, et al (2009), Estimates of poverty and social exclusion in Australia: A Multi dimensional approach, Melbourne,
   Institute of applied economic and social research, the University of Melbourne.
- Silver, Hilary (2007), the process of social exclusion: the dynamics of an evolving concept, USA: **chronic poverty research center (CPRC)**.
- Sirovatka, Tomas and Peter Mares (2008), Social exclusion and forms of social capital:Czech evidence on mutual links, socialogicky casopis /
   Czech sociological review, Vol 44, No 3:531-555.
- Sirovatka, tomas and Petra Mares (2008), social exclusion and forms of social capital, Brno: Socialogicky Czech sociological Review, Vol 44, No 3: 531 555.
- Till, Matthias and Liana Giorgi (2002), Causes of poverty and social exclusion, Vienna: population and social policy consultants (BE).
- Yusuf, sayed, et al (2007), Education exclusion and inclusion: policy and implementation in south Africa and India, researching the issues,
   DFID.

Arabic Digital Library of I

## أخي الكريم تحية طيبة وبعد

يقوم الباحث بإعداد رسالة الماجستير في علم الاجتماع بعنوان " الاستبعاد الاجتماعي في المجتمع الأردني " لذا أرجو تكرمكم بالإجابة على فقرات الإستبيان التالية والَّتي تُعبر عن رأيكم، علما بأن إجاباتكم ستعامل بسرية تامة وهي الأغراض A Strinoulk البحث العلمي فقط.

الباحث محمد بني مفرج

	معلومات عامة:
	1- العمر ( ) سنة
ې ثانوي 🔲	2- المستوى التعليمي: أمي أساسي
ي	جامعي تعليم عال
ع المطلق المل	3- الحالة الاجتماعية: أعزب متزوج
جات المراجع	:4- إذا كانت الإجابة متزوج، فما هو عدد الزو
ئة 🗌 أربعة 🗌	واحدة الثنتان الثلاث
	<ul><li>5- عدد أفراد الأسرة: ( )</li></ul>
ر 201 – 400 دينار	6- الدخل الشهري للأسرة: اقل من 200 دينار
ر 500 -800 دينار	600 – 401 دينا
ار 🗍	أكثر من 800 دين
متقاعد صاحب عمل	7- الحالة العملية: اعمل كا اعمل
ام قطاع خاص	
	9- ما هو نوع العمل ؟ زراعي صناع
	10- هل تتقاضى الأسرة معونة وطنية ؟ نعم

11- هل أنت مؤمناً صحياً ؟ نعم كلا كلا الله
12- إذا كانت الإجابة نعم، فما هو نوع التأمين ؟
حكومي (وزارة الصحة) 🔲 قوات مسلحة 📗 وكالة الغوث 📗 تنمية 📗
اجتماعية غير ذلك، وما هو ؟
13- حالة السكن: ملك اليجار مشترك
14-كم عدد غرف السكن: غرفة واحدة عرفتان الثاثة غرف
أربعة غرف كثر من ذلك
7-4م عدد الأفراد الذين يقيمون في المسكن ؟ أقل من 3 من 4 $-7$
11 - 8
المحور الأول: مجالات الاستبعاد الاجتماعي
أولاً: المجال الاقتصادي
1) على ماذا تنفق دخلك ؟
2) هل يكفي الدخل لسد احتياجات الأسرة ؟ نعم لله لا للها الله الله الله الله الله ا
3) هل تعاني من مشاكل في عملك ؟ نعم لا
4) إذا كانت الإجابة نعم، ما طبيعة هذه المشاكل ؟
5) هل تحب عملك ؟ نعم الله الله الله الله الله الله الله الل
<ul> <li>(عن علي تحد السلم التي تحتاجها ؟ نعم</li> <li>لا</li></ul>
<ul> <li>ت الإجابة لا، ما هي البضائع التي تضطر لشرائها من خارج القرية ؟</li> </ul>
ر) ہے۔ <u>۔۔۔ ہو بب عب میں بب دی سے ۔۔۔ رہ بہ بی ۔۔۔ رہ</u> ب
8) كم مرة تخرج من القرية لقضاء حاجاتك ؟ مرة في اليوم مرة في الأسبوع الأسبوع من القرية لقضاء حاجاتك ؟
مرة كل أسبو عين مرة في الشهر
ثانياً: المجال السياسي
<ul> <li>القرية أشخاص يشغلون مناصب عليا في الدولة ؟ نعم</li> </ul>
2) إذا كانت الإجابة نعم، هل يقطنون داخل القرية ؟ نعم الله الله الله القرية كانت الإجابة الله الله الله القرية كانت الإجابة الله الله الله الله الله الله الله الل
3) إذا كانت الإجابة لا، هل يبقون على تواصل مع أهالي القرية ؟ نعم كلا كانت الإجابة لا، هل يبقون على تواصل مع أهالي القرية ألا ينعم
`

4) هل أنت عضو في حزب سياسي أو نقابة عمالية ؟ نعم كل كل كل كل
5) إذا كانت الإجابة لا، ما هي الأسباب ؟
6) هل تعتقد بأن هدم الحمة وراءه أسبابا سياسية ؟ نعم
7) إذا كانت الإجابة نعم، ما هي الأسباب ؟
<ul> <li>8) هل تحظى القرية بزيارة المسؤولين من الدولة ؟ أبدا</li> </ul>
9) هل لدى أهالي القرية الحرية في التعبير عن مطالبهم لأصحاب القرار ؟ نعم لا
ثالثاً: المجال الاجتماعي
1) هل هناك أناس ممن تعيش معهم في القرية تلجأ إليهم وقت الحاجة ؟ نعم لا
2) هل تشعر بالعزلة الاجتماعية ؟ نعم الله الله الله الله الله الله الله الل
3) هل لديك علاقات اجتماعية مع أناس من خارج قريتك ؟ نعم لا
4) هل تجتمع مع أصدقائك وأقاربك من هم خارج قريتك ؟ نعم الله الله الله الله الله الله الله الل
5) إذا كانت الإجابة نعم، فهل تجتمع معهم: أكثر من مرة في الشهر الواحد مرة كل شهرين
مرة كل 3 شهور أكثر من ذلك
6) هل تفضل البقاء في القرية ؟ نعم لا لا لا
7) أياً كانت الإجابة فما هي الدوافع ؟
8) ما أفضل شيء في القرية ؟
••••••••••••••••••••••••••••••••••••
9) ما هي المساوئ التي تراها في القرية ؟

رابعاً: المجال التعليمي
1) إلى ماذا تفتقر المباني المدرسية ؟
2) هل تحظى مدارس القرية باهتمام ورعاية المسؤولين؟ نعم لا
3) هل يتوفر في القرية المواصلات للطلبة ؟ نعم لا لا لا المواصلات الطلبة المواصلات المواصل
4) هل يعاني الطلبة من بعد المدارس؟ نعم لل لا
5) هل هناك تسرب للطلبة من المدارس؟ نعم لا
<ul><li>6) إذا كان هناك تسربا، ما هي الأسباب ؟</li></ul>
7) ما هي المشكلات التي يعاني منها الطلبة داخل الغرف الصفية ؟
خامساً: المجال الصحي
1) كم مرة تراجع المركز الصحي ؟ مرة في الأسبوع
مرة في الشهر أكثر من ذلك
2) هل تتلقون رعاية صحية جيدة في مركز صحي القرية ؟ بدرجة كبيرة
متدنية الايوجد رعاية
3) إلى ماذا يفتقر مركز صحي القرية ؟
4) إذا لم يتوفر الطبيب الذي تريد، ماذا تفعل ؟
5) هل تعاني من مدة انتظار طويلة ؟ نعم الله الله الله الله الله الله الله الل
<ul> <li>6) هل يحظى مركز صحي القرية باهتمام ورعاية المسؤولين ؟ نعم</li> </ul>
7) إذا لم يتوفر في المركز الصحي للأدوية التي تحتاجها، ماذا تفعل ؟

المحور التاني: الوعي بالاستبعاد الاجتماعي
1) هل تعي بأنك تعيش أفضل من غيرك ؟ نعم الالله الله الله الله على الله الله الله الله الله الله الله ال
2) هل تعي بأن الخدمات المقدمة لقريتك لا تكفي احتياجاتها ؟ نعم كل الله المقدمة لقريتك لا تكفي احتياجاتها
3) هل تعتقد بأن موقع قريتك بين لوائين ( لواء بني كنانة ولواء الأغوار الشمالية ) يحرمها من الخطط والمشاريع
التنموية ؟ لا
4) هل تشعر بأن الخدمات المقدمة للقرى المجاورة أفضل من الخدمات المقدمة لقريتك ؟ نعم اللا للا
5) بعد القرية عن مراكز صنع القرار يجعلها منطقة مستبعدة اجتماعياً ؟ نعم لا
<ul> <li>هل تعتقد بأن أبناء القرية لا يحظون بفرص الوصول إلى المناصب العليا في الدولة؟ نعم لا لا</li> </ul>

## Abstract

This study aimed to recognize the fields of social exclusion and to recognize the range of the awareness of the villagers of Al-Mokheabh Al Foca that they are socially exclusive. The sample of the study consists of (130) of head of household they are chosen intentionally and the study used the questionnaire as a tool to reach the aims.

The results of the study appeared that the villagers are exclusive in the economic field which includes the insufficient income for the need and also the difficulty of transport for them to exist from the village weekly to buy what they need because they aren't available in their village.

The results of the study discovered that the villagers are exclusive in the political field because they did not occupy a higher positions in the governments, the officials did not visit them which deprives the villagers from expressing about their demands and delivering them to the officials and also there is a political belief with the villagers beyond the destroying of Hamma.

The results of the study reached in the social field that there wasn't a social isolation among the villagers because of the good relationship among the relatives and the friends in the village, but the exclusion of the villagers in the social field appeared through the absence of social relations which connect the village with the people outside the village.

The results of the study reached that the villagers are exclusive in the educational field because the officials did not look after the school, playgrounds and entertainment tools and also it appeared that there was a low academic attainment and a remarkable leak with the students from school.

The results of the study appeared that the villagers are exclusive in the healthy field because of the carelessness of the official and the shortage of the medical stuff and drugs.

The results showed that the villagers had awareness that they are social exclusion because they are aware that the life of the others is better their life and the services that given to their village weren't enough comparing with the services given to the near villages, besides that their village locates between two subgovernorates this deprives it from the plans and developed projects and also deprives their sons from occupying a higher positions in the government.

**Key words:** Social exclusion, Economical exclusion, Political exclusion, Educational exclusion, Healthy exclusion

..